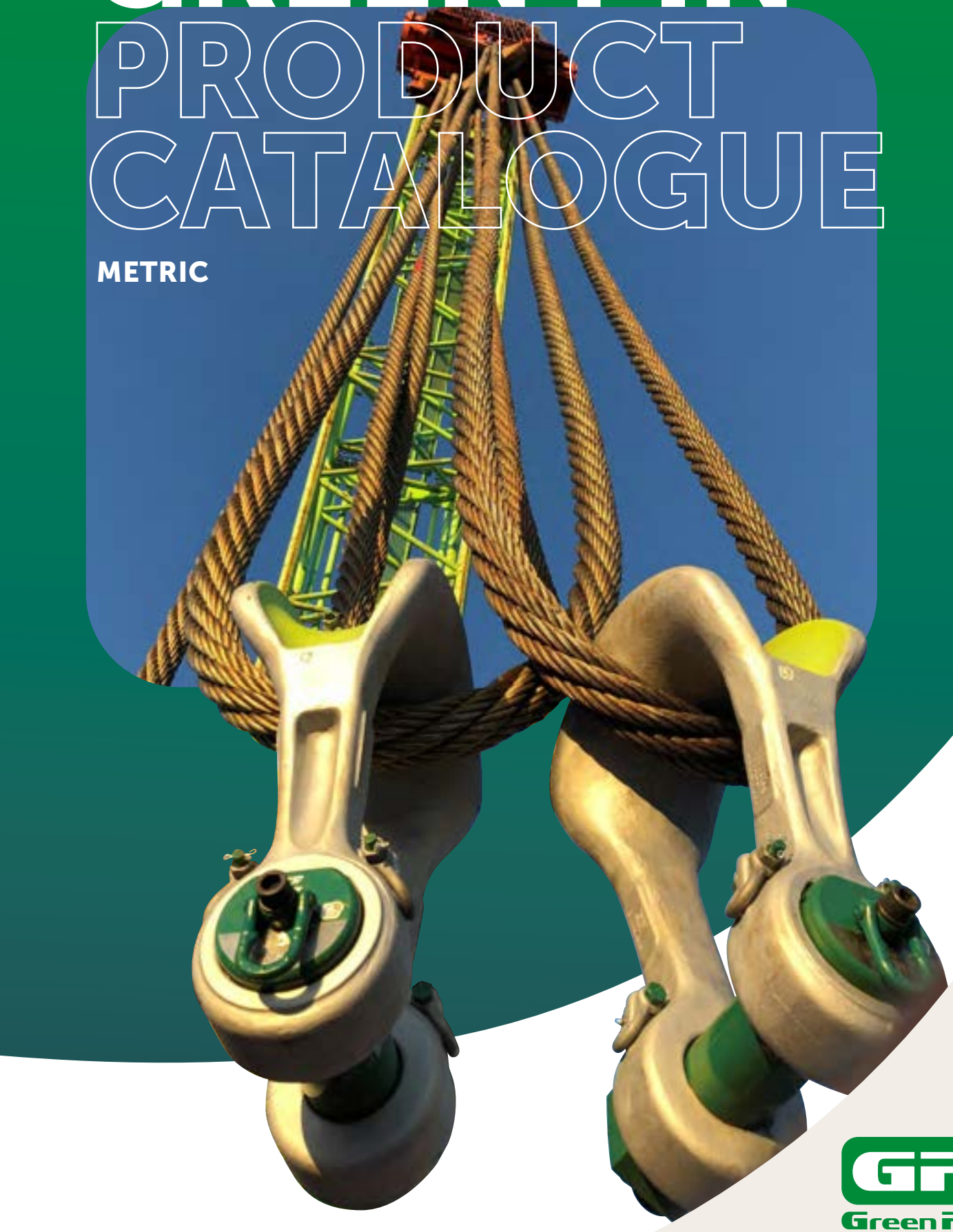
VAN BEEST

GREEN PIN®

PRODUCT CATALOGUE

METRIC



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, 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

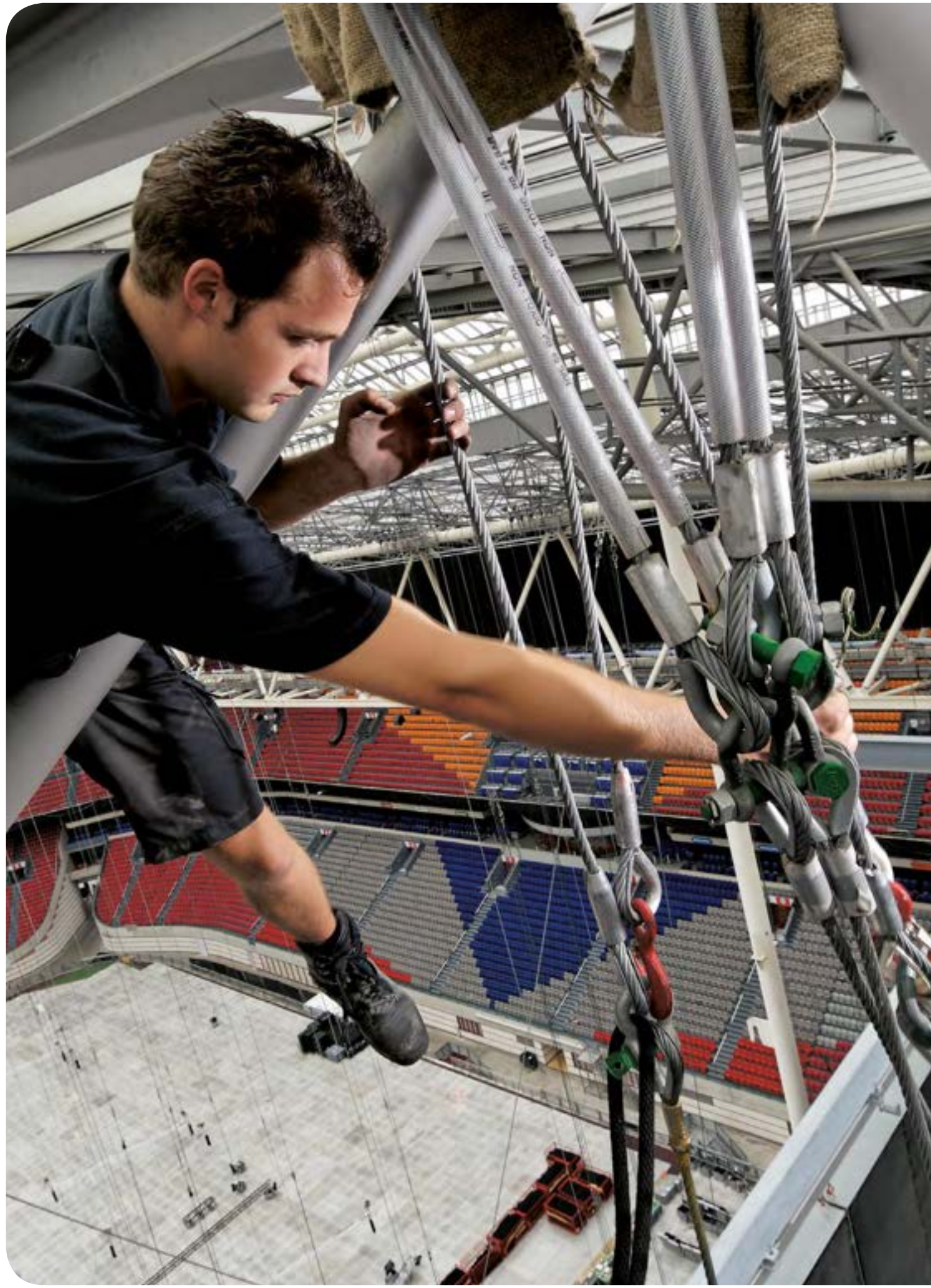




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WELCOME TO THE WORLD OF GREEN PIN®









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 900 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

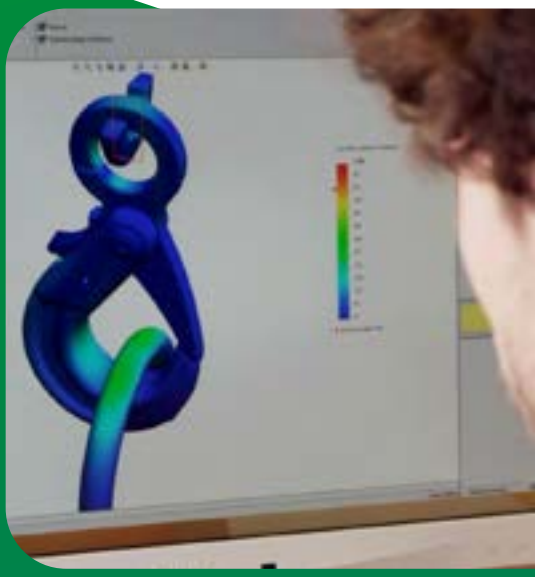


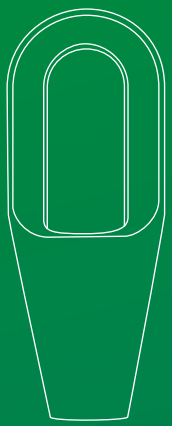
RELY ON THE BEST EQUIPMENT AND SUPPORT. GUARANTEED

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 3;
- High tensile steel, untreated or normalized, grade 4;
- High tensile steel, quenched and tempered, grade 6;
- Alloy steel, quenched and tempered, grade 8;
- Alloy steel, quenched and tempered, grade 10;
- Stainless steel AISI316L, AISI316 or Duplex 1.4462, grade 5.

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 5	SQ	Square headed Screw Pin
GR8	Grade 8	U-type	Universal (Horizontal and Vertical)
GR10	Grade 10	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 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 angle ß, which is the angle between the sling leg and the vertical, should never exceed 60°. 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 vertical are all more than 15° 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 8 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 -60 °C;
- 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 13 mm 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:

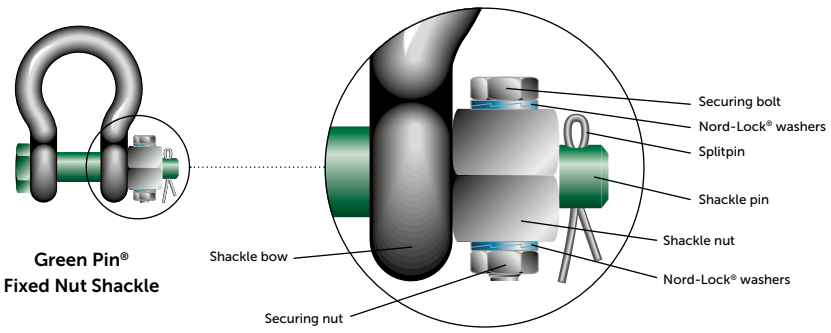
- DNV Standard for Certification No. 0377 Standard for Shipboard Lifting Appliances
- DNV Standard for Certification No. 0378 Offshore and Platform Lifting Appliances

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
t	t	t	t	t	t	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:

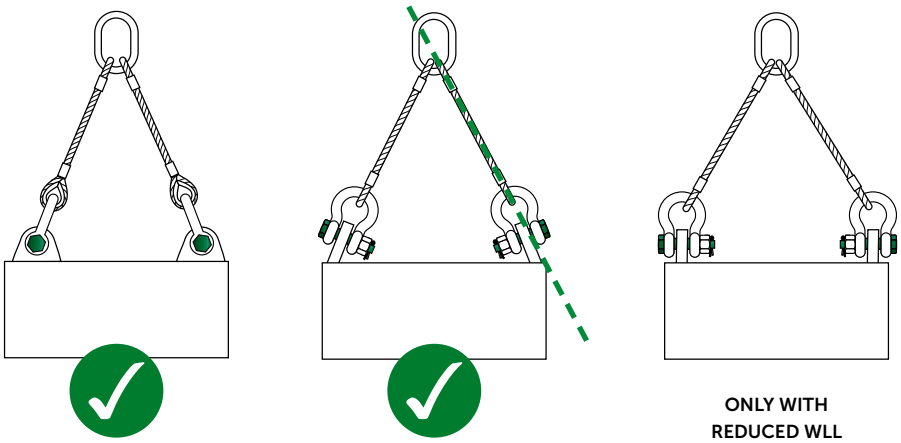
- all markings are legible;
- the body and pin are both of the same brand and type;
- the body and pin are both of the correct size;
- never use a safety bolt type shackle without using a securing pin;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the threads 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

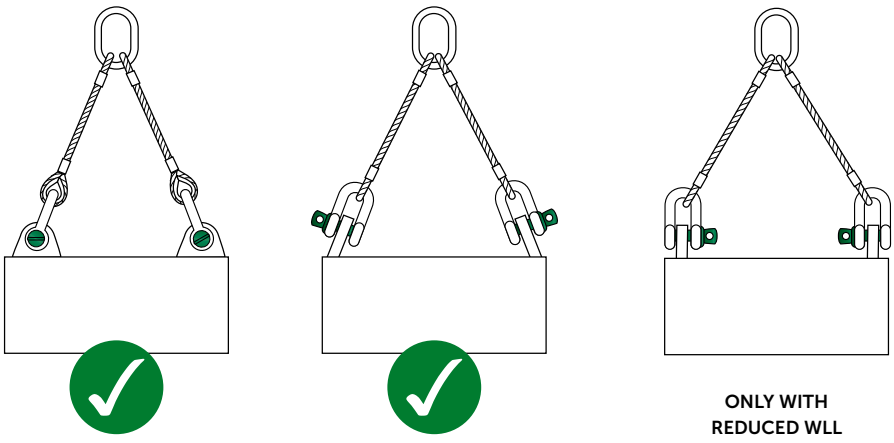
Ensure that the pin is correctly screwed into the shackle eye: tighten it hand-tight, then secure it using a wrench or other suitable tool so that the collar of the pin is fully seated against the shackle eye. Ensure that the pin is of the correct length so that it penetrates the full depth of the threaded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



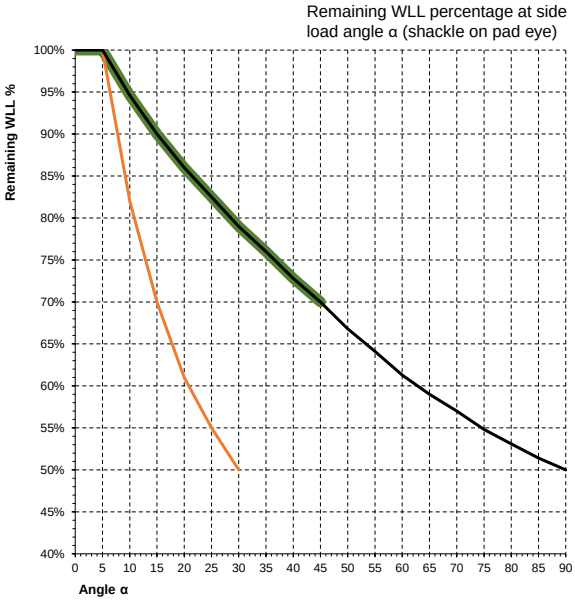
ONLY WITH
REDUCED WLL

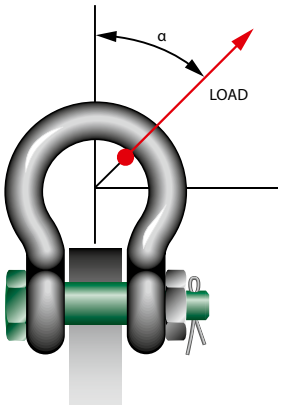


ONLY WITH
REDUCED WLL

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:



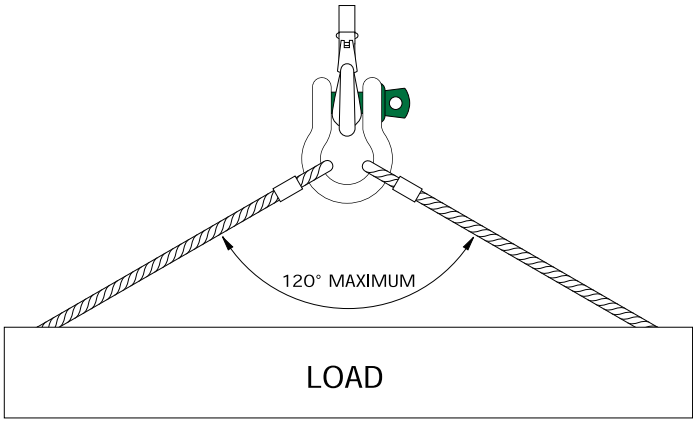


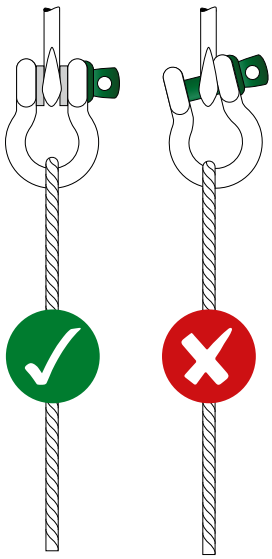
This black curve is valid for almost all Green Pin® shackles, except for ROV Shackles (P-5363 and P-5367) which are for in-line use only. The green curve is valid for Green Pin® Sling Shackles (P-6033, P-6013 and P-6065) and the orange curve is valid for the Green Pin Power Sling® Shackles (P-6043).

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.

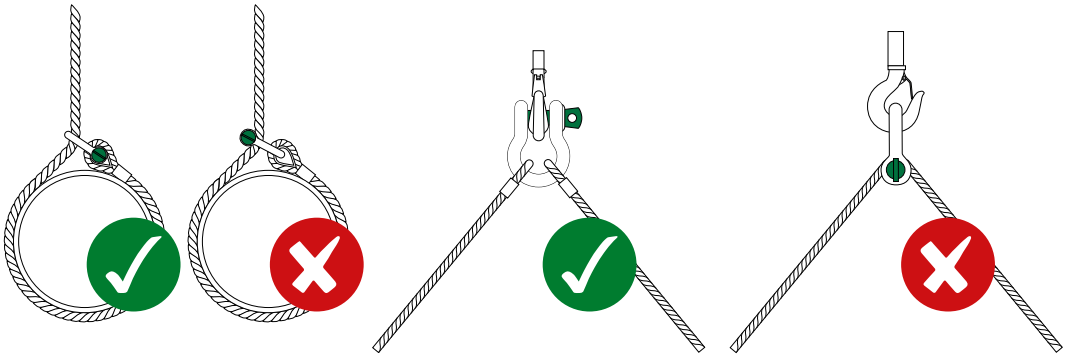
Avoiding eccentric loading

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.



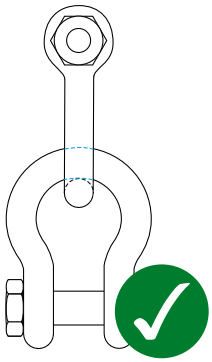
Chemicals

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

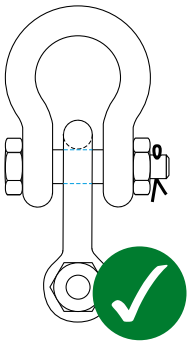
Point loading

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.

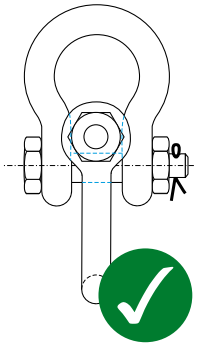
Bow-Bow



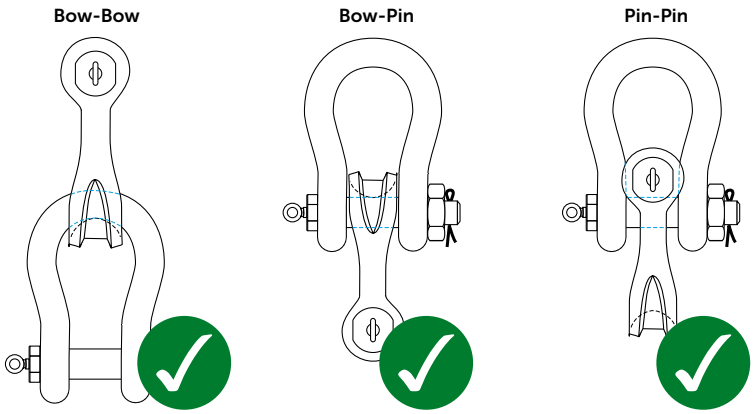
Bow-Pin



Pin-Pin

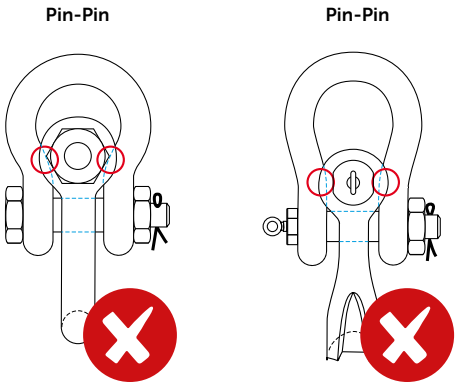


The crown of a Green Pin® Sling Shackle (P-6033) is wider than that of a standard shackle, thus creating a larger bearing surface. This improves the lifetime of the sling. Green Pin® Sling shackles can also be used in below configurations. The maximum load of the configuration is limited by the component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



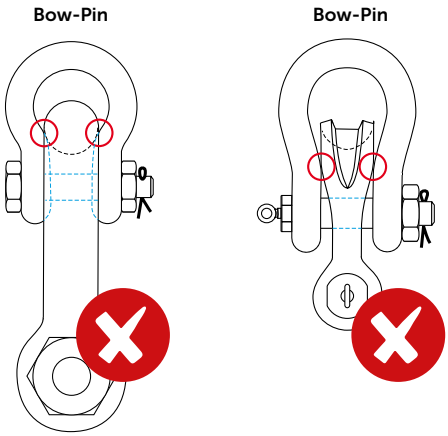
Pin- Pin configuration

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.



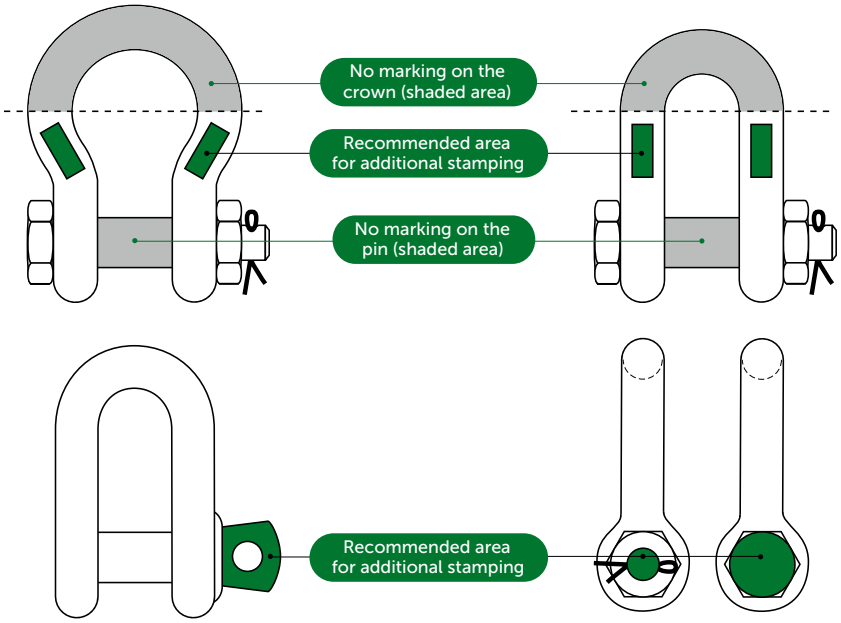
Contact Royal Van Beest, to check if a certain configuration is possible.

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 12.5 mm > 3.0 mm;
  - 12.5 to 26 mm > 4.5 mm;
  - over 26 mm > 6.0 mm.

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 200 °C	100% of original Working Load Limit
200 - 300 °C	90% of original Working Load Limit
300 - 400 °C	75% of original Working Load Limit
> 400 °C	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.



Green Pin® Bow Shackle SC

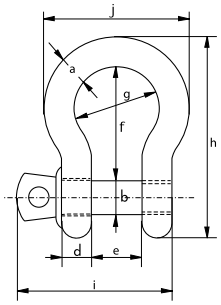
Standard bow shackle with screw collar pin

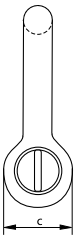
Scan for additional product details



G-4161

- **Material:** bow and pin high tensile steel, grade 6, 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 °C up to +200 °C
- **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





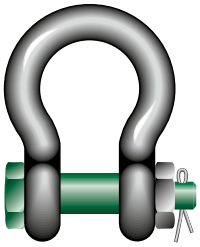
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
0.33	5	6	12	5	9.5	22	16	36	29.5	26	0.02
0.5	7	8	16	7	12	29	20	48	38	34	0.05
0.75	9	10	20	9	13.5	32	22	56	46.5	40	0.10
1	10	11	23	10	17	37	26	64	54	46	0.14
1.5	11	13	25	11	19	43	29	73	59.5	51	0.19
2	13.5	16	34	13	22	51	32	90	73	59	0.36
3.25	16	19	40	16	27	64	43	110	89	75	0.63
4.75	19	22	46	19	31	76	51	129	103	89	1.01
6.5	22	25	52	22	36	83	58	144	119	102	1.50
8.5	25	28	59	25	43	95	68	164	137	118	2.21
9.5	28	32	67	28	47	108	75	186	153	131	3.16
12	32	35	73	32	51	115	83	201	170	147	4.31
13.5	35	38	79	35	57	133	92	227	186	162	5.58
17	38	42	88	38	60	146	99	249	203	175	7.43
25	45	50	104	45	74	178	126	300	243	216	12.5
35	50	57	112	50	83	197	138	332	272	238	17.2
42.5	57	65	132	57	95	222	160	378	310	274	26.3
55	65	70	145	65	105	260	180	433	344	310	37.6

CAD RFID INFO

Green Pin® Bow Shackle BN

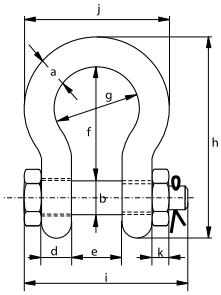
Standard bow shackle with safety bolt

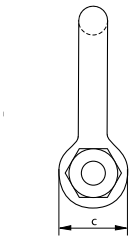
Scan for additional product details



G-4163

- **Material:** bow and pin high tensile steel, grade 6, 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 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
0.5	7	8	16	7	12	29	20	48	42	34	4	0.06
0.75	9	10	20	9	13.5	32	22	56	50	40	5	0.11
1	10	11	23	10	17	37	26	64	60	46	8	0.16
1.5	11	13	25	11	19	43	29	73	67	51	11	0.22
2	13.5	16	34	13	22	51	32	90	80	59	13	0.42
3.25	16	19	40	16	27	64	43	110	98	75	17	0.74
4.75	19	22	46	19	31	76	51	129	115	89	19	1.18
6.5	22	25	52	22	36	83	58	144	130	102	22	1.77
8.5	25	28	59	25	43	95	68	164	150	118	25	2.58
9.5	28	32	67	28	47	108	75	186	166	131	27	3.66
12	32	35	73	32	51	115	83	201	184	147	30	4.91
13.5	35	38	79	35	57	133	92	227	197	162	33	6.54
17	38	42	88	38	60	146	99	249	202	175	19	8.19
25	45	50	104	45	74	178	126	300	243	216	23	14
35	50	57	112	50	83	197	138	332	269	238	26	18.8
42.5	57	65	132	57	95	222	160	378	301	274	29	28.3
55	65	70	145	65	105	260	180	433	329	310	32	39.6
85	75	83	167	75	127	330	190	530	381	340	39	62

CAD | RFID | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

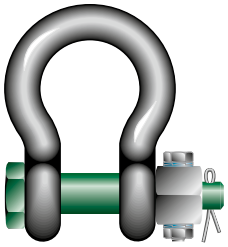
ABS TYPE APPROVED PRODUCT

* For shackles ≥ WLL 2 t

Green Pin® Bow Shackle FN

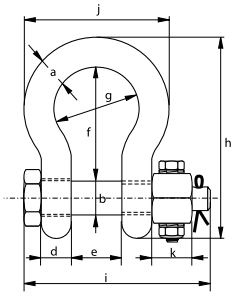
Standard bow shackle with safety bolt and fixed nut

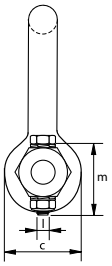
Scan for additional product details



- **Material:** bow and pin high tensile steel, grade 6, 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 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	m mm	Nm	kg
2	13.5	16	34	13	22	51	32	90	80	59	13	M6	35	8.4	0.42
3.25	16	19	40	16	27	64	43	110	98	75	17	M6	40	8.4	0.74
4.75	19	22	46	19	31	76	51	129	115	89	19	M6	45	8.4	1.18
6.5	22	25	52	22	36	83	58	144	130	102	22	M8	50	20	1.77
8.5	25	28	59	25	43	95	68	164	150	118	25	M8	55	20	2.58
9.5	28	32	67	28	47	108	75	186	166	131	27	M10	60	39	3.66
12	32	35	73	32	51	115	83	201	184	147	30	M10	65	39	4.80
13.5	35	38	79	35	57	133	92	227	197	162	33	M10	70	39	6.54
17	38	42	88	38	60	146	99	249	202	175	19	M8	75	20	8.19
25	45	50	104	45	74	178	126	300	243	216	23	M8	90	20	14
35	50	57	112	50	83	197	138	332	269	238	26	M10	100	39	19.9
42.5	57	65	132	57	95	222	160	378	301	274	29	M12	110	68	28.3
55	65	70	145	65	105	260	180	433	329	310	32	M12	120	68	39.6
85	75	83	167	75	127	330	190	530	381	340	39	M12	140	68	62

CAD | RFID | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

Green Pin® Dee Shackle SC

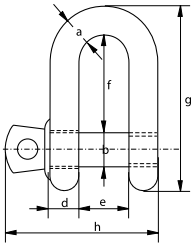
Standard dee shackle with screw collar pin

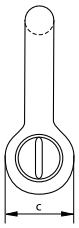
Scan for additional product details



- **Material:** bow and pin high tensile steel, grade 6, 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 °C up to +200 °C
- **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





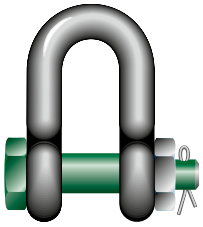
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.33	5	6	12	5	9.5	19	33	29.5	0.02
0.5	7	8	16	7	12	22.5	41.5	38	0.05
0.75	9	10	20	9	13.5	27	51	46.5	0.09
1	10	11	23	10	17	32	59	54	0.14
1.5	11	13	25	11	19	37	67	59.5	0.19
2	13.5	16	34	13	22	43	82	73	0.32
3.25	16	19	40	16	27	51	97	89	0.54
4.75	19	22	46	19	31	59	112	103	0.87
6.5	22	25	52	22	36	73	134	119	1.34
8.5	25	28	59	25	43	85	154	137	2.08
9.5	28	32	67	28	47	90	168	153	2.77
12	32	35	73	32	51	94	180	170	3.72
13.5	35	38	79	35	57	115	209	186	5.44
17	38	42	88	38	60	127	230	203	6.85
25	45	50	104	45	74	149	271	243	11.5
35	50	57	112	50	83	171	306	272	16.9
42.5	57	65	132	57	95	190	346	310	24.6
55	65	70	145	65	105	203	376	344	32.7

CAD | RFID | INFO

Green Pin® Dee Shackle BN

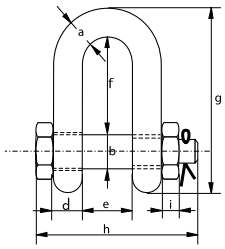
Standard dee shackle with safety bolt

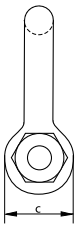
Scan for additional product details



- **Material:** bow and pin high tensile steel, grade 6, 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 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
2	13.5	16	34	13	22	43	82	80	13	0.39
3.25	16	19	40	16	27	51	97	98	17	0.67
4.75	19	22	46	19	31	59	112	115	19	1.08
6.5	22	25	52	22	36	73	134	130	22	1.66
8.5	25	28	59	25	43	85	154	150	25	2.46
9.5	28	32	67	28	47	90	168	166	27	3.40
12	32	35	73	32	51	94	180	184	30	4.51
13.5	35	38	79	35	57	115	209	197	33	6.10
17	38	42	88	38	60	127	230	202	19	7.63
25	45	50	104	45	74	149	271	243	23	12.9
35	50	57	112	50	83	171	306	269	26	17.4
42.5	57	65	132	57	95	190	346	301	29	25.9
55	65	70	145	65	105	203	376	329	32	35.3
85	75	83	167	75	127	229	429	381	39	53

CAD | RFID | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

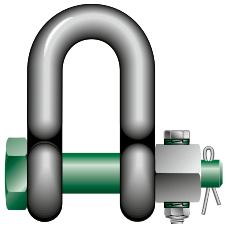
ABS TYPE APPROVED PRODUCT

* For shackles ≥ WLL 2 t

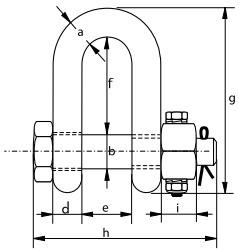
Green Pin® Dee Shackle FN

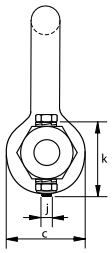
Standard dee shackle with safety bolt and fixed nut

Scan for additional product details »



G-4133





- **Material:** bow and pin high tensile steel, grade 6, 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 °C up to +200 °C
- **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	length	length bolt	thickness nut	securing bolt thread	securing bolt length	torque	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	Nm	kg
2	13.5	16	34	13	22	43	82	80	13	M6	35	8.4	0.39
3.25	16	19	40	16	27	51	97	98	17	M6	40	8.4	0.67
4.75	19	22	46	19	31	59	112	115	19	M6	45	8.4	1.08
6.5	22	25	52	22	36	73	134	130	22	M8	50	20	1.66
8.5	25	28	59	25	43	85	154	150	25	M8	55	20	2.46
9.5	28	32	67	28	47	90	168	166	27	M10	60	39	3.40
12	32	35	73	32	51	94	180	184	30	M10	65	39	4.51
13.5	35	38	79	35	57	115	209	197	33	M10	70	39	6.10
17	38	42	88	38	60	127	230	202	19	M8	75	20	7.63
25	45	50	104	45	74	149	271	243	23	M8	90	20	13.3
35	50	57	112	50	83	171	306	269	26	M10	100	39	18.5
42.5	57	65	132	57	95	190	346	301	29	M12	110	68	25.9
55	65	70	145	65	105	203	376	329	32	M12	120	68	35.3
85	75	83	167	75	127	229	429	381	39	M12	140	68	53

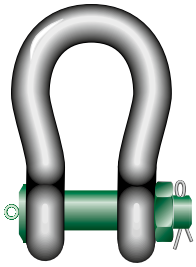
CAD | RFID | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

Green Pin® Heavy Duty Bow Shackle BN

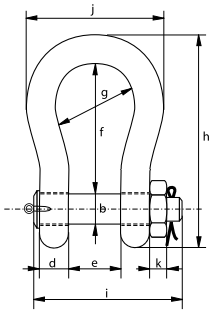
High load capacity bow shackle with safety bolt

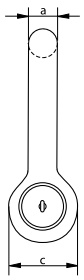
Scan for additional product details



P-6036

- **Material:** bow and pin alloy steel, grade 8 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 °C up to +200 °C ≤ 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





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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg	kg
120	95	95	204	95	147	400	238	644	453	428	50	28.1	114
150	105	108	235	105	169	410	275	686	496	485	50	39.2	155
200	120	130	270	120	179	513	290	833	564	530	71	69.2	235
250	130	140	284	130	205	554	305	896	614	565	71	85.5	295
300	140	150	308	140	205	618	305	987	644	585	81	102	366
400	170	175	376	164	231	669	325	1115	698	665	70	151	620
500	180	185	398	164	256	719	350	1191	728	710	70	173	720
600	200	205	444	189	282	719	375	1244	810	775	70	228	975
700	210	215	454	204	308	718	400	1263	870	820	70	265	1075
800	210	220	464	204	308	718	400	1270	870	820	70	276	1100
900	220	230	485	215	328	718	420	1296	920	860	70	319	1250
1000	240	240	515	215	349	718	420	1336	940	900	70	351	1460
1250	260	270	585	230	369	768	450	1456	1025	970	70	481	1940
1500	280	290	625	230	369	818	450	1556	1025	1010	70	556	2305

CAD RFID

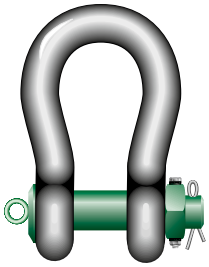
* Standard certification for shackles ≥ WLL 400 t
** For shackles ≥ WLL 120 t and ≤ WLL 600 t available with or without LROS.
For shackles ≥ WLL 700 t available with LROS
*** With additional charges

Green Pin® Heavy Duty Bow Shackle FN

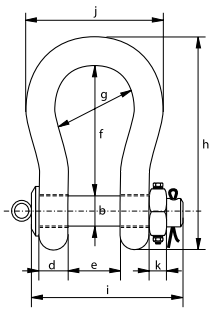
High load capacity bow shackle with safety bolt and fixed nut

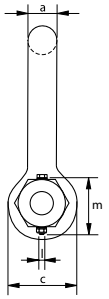
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 8, 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 °C up to +200 °C
- **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-6016





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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	m mm	Nm	kg	kg
120	95	95	204	95	147	400	238	644	453	428	50	M12	150	68	28.1	110
150	105	108	235	105	169	410	275	686	496	485	50	M12	160	68	39.2	155

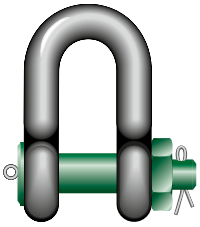
CAD | RFID | INFO

* With additional charges

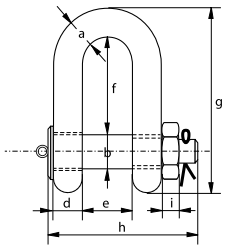
Green Pin® Heavy Duty Dee Shackle BN

High load capacity dee shackle with safety bolt

Scan for additional product details



P-6038





- **Material:** bow and pin alloy steel, grade 8 quenched and tempered
- **Safety Factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** painted
- **Temperature range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg	kg
120	95	95	204	95	147	274	520	440	50	28.1	110

CAD RFID

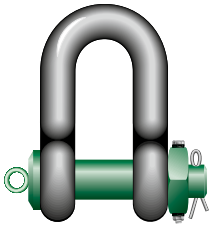
* With additional charges

Green Pin® Heavy Duty Dee Shackle FN

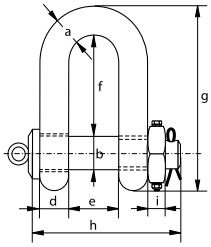
High load capacity dee shackle with safety bolt and fixed nut

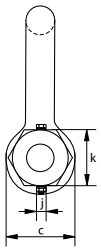
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 8, quenched and tempered
- **Safety Factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** painted
- **Temperature range:** -40 °C up to +200 °C ≤ 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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	Nm	kg	kg
120	95	95	204	95	147	274	520	440	50	M12	150	68	28.1	97

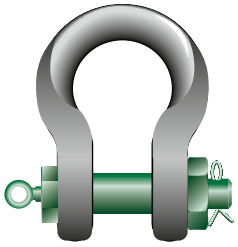
CAD RFID INFO

* With additional charges

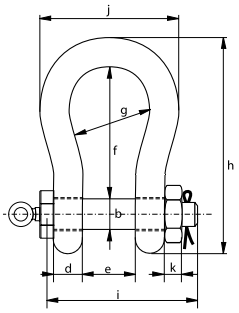
Green Pin® Sling Shackle BN

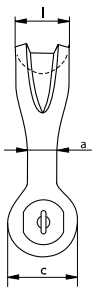
High load capacity bow shackle with safety bolt

Scan for additional product details



P-6033





- **Material:** bow and pin alloy steel, grade 8, 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 °C up to +200 °C ≤ WLL 600 t
  -20 °C up to +200 °C ≥ 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

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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg	kg
7	22	22	46	19	32	96	64	153	115	110	19	41	0.99	1.97
12.5	28	28	61	25	44	120	82	197	151	146	24	54	1.82	4.27
18	35	35	69	30	54	148	102	239	171	180	29	64	2.35	6.85
30	40	42	90	35	69	165	126	279	207	200	34	79	4.23	12.5
40	55	51	109	45	84	199	140	331	252	235	38	97	4.32	20.3
55	60	57	115	55	90	240	160	389	294	270	45	100	4.6	30.4
75	68	70	126	54	110	290	185	473	317	331	40	120	11.4	45
125	85	80	156	85	137	366	220	583	413	390	40	150	18.6	92
150	94	95	181	89	147	391	253	648	445	449	50	170	27.3	140
200	110	105	201	100	158	481	280	759	480	500	50	205	36.9	205
250	126	120	229	110	179	542	300	860	535	552	60	240	54.3	264
300	136	134	246	134	195	601	350	946	590	620	70	265	79.4	360
400	160	160	295	145	231	576	370	995	687	710	80	320	127	583
500	170	180	330	160	263	681	450	1161	762	850	90	340	176	862
600	190	200	360	170	289	741	490	1264	827	930	100	370	234	1134
700	200	215	392	190	315	751	540	1284	879	901	100	400	290	1142
800	218	230	420	200	342	851	554	1426	942	947	110	420	350	1418
900	242	255	466	220	368	851	580	1488	1023	1023	120	440	464	1810
1000	260	270	490	240	399	851	614	1532	1103	1107	120	460	559	2385
1250	285	300	510	260	452	931	650	1666	1227	1182	150	530	782	3110
1550	285	320	550	280	483	950	680	1710	1300	1253	150	560	918	3655

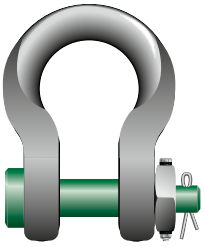
CAD RFID

* 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

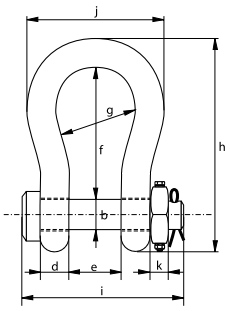
High load capacity bow shackle with safety bolt and fixed nut

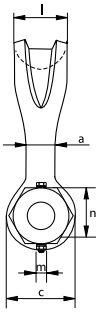
Scan for additional product details



P-6013

- **Material:** bow and pin alloy steel, grade 8, 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 °C up to +200 °C
- **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





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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	m mm	n mm	Nm	kg
7	22	22	46	19	32	96	64	153	115	110	19	41	M6	45	8.4	1.97
12.5	28	28	61	25	44	120	82	197	151	146	24	54	M8	50	20	4.27
18	35	35	69	30	54	148	102	239	171	180	29	64	M10	65	39	6.85
30	40	42	90	35	69	165	126	279	207	200	34	79	M6	75	8.4	12.5
40	55	51	109	45	84	199	140	331	252	235	38	97	M8	90	20	20.3
55	60	57	115	55	90	240	160	389	294	270	45	100	M10	100	39	30.4
75	68	70	126	54	110	290	185	473	317	317	40	120	M12	120	68	45
125	85	80	156	85	137	366	220	583	413	390	40	150	M12	130	68	92
150	94	95	181	89	147	391	253	648	445	449	50	170	M12	140	68	140

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

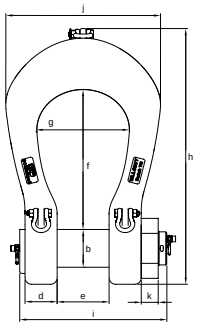
High load capacity, grade 8 shackle with safety bolt

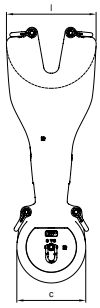
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 8, 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 °C up to +200 °C
- **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



P-6043





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
t	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg	kg
125	81	165	89	134	365	220	632	382	370	36	205	17.3	97
150	95	182	90	144	390	250	703	408	420	42	248	26.1	134
200	105	204	100	154	480	276	838	446	474	47	290	35.4	196
250	120	238	110	174	540	300	938	503	513	60	314	54.8	273
300	134	260	121	189	600	350	1032	550	604	60	345	71.9	371
400	160	305	140	224	620	370	1123	635	653	70	392	114	562
500	180	340	152	255	680	450	1239	699	763	70	440	157	783
600	200	365	170	280	741	490	1354	768	818	70	475	212	1003
700	215	405	190	320	751	540	1415	849	893	70	512	271	1276
800	230	430	200	347	851	554	1547	904	917	70	536	328	1484
900	255	476	215	373	851	580	1599	963	972	70	560	426	1808
1000	270	500	232	405	851	614	1643	1030	1022	70	590	508	2132
1250	300	570	245	436	930	650	1813	1114	1144	70	670	673	2891
1550	320	590	270	469	950	680	1890	1220	1210	70	704	827	3517

CAD | RFID | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

Green Pin Super® Bow Shackle SC

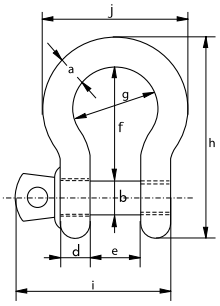
Grade 8 bow shackle with screw pin

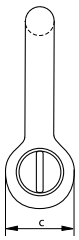
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 8, 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:** -20 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
3.3	13.5	16	34	13	22	51	32	90	73	59	0.36
5	16	19	40	16	27	64	43	110	89	75	0.63
7	19	22	46	19	31	76	51	129	103	89	1.01
9.5	22	25	52	22	36	83	58	144	119	102	1.50
12.5	25	28	59	25	43	95	68	164	137	118	2.21
15	28	32	67	28	47	108	75	186	153	131	3.16
18	32	35	73	32	51	115	83	201	170	147	4.31
21	35	38	79	35	57	133	92	227	186	162	5.58
30	38	42	88	38	60	146	99	249	203	175	7.43
40	45	50	104	45	74	178	126	300	243	216	12.5
55	57	57	119	57	83	197	138	341	286	252	17.2
85*	70	70	145	70	105	260	180	437	354	320	37.6

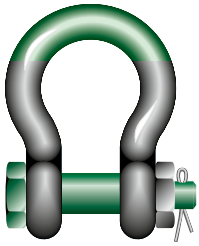
CAD RFID INFO

* Excluded from ABS Type Approval

Green Pin Super® Bow Shackle BN

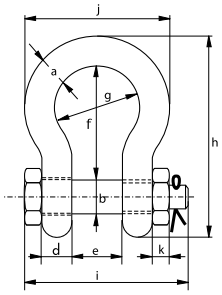
Grade 8 bow shackle with safety bolt

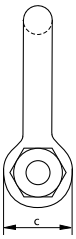
Scan for additional product details



- **Material:** bow and pin alloy steel, grade 8, 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:** -20 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
3.3	13.5	16	34	13	22	51	32	90	80	59	13	0.40
5	16	19	40	16	27	64	43	110	98	75	17	0.73
7	19	22	46	19	31	76	51	129	115	89	19	1.19
9.5	22	25	52	22	36	83	58	144	130	102	22	1.73
12.5	25	28	59	25	43	95	68	164	150	118	25	2.56
15	28	32	67	28	47	108	75	186	166	131	27	3.60
18	32	35	73	32	51	115	83	201	184	147	30	4.95
21	35	38	79	35	57	133	92	227	197	162	33	6.62
30	38	42	88	38	60	146	99	249	202	175	19	8.11
40	45	50	104	45	74	178	126	300	243	216	23	14.8
55	57	57	119	57	83	197	138	342	283	252	26	24.2
85	70	70	145	70	105	260	180	438	339	320	32	45.1
120	83	83	164	83	127	329	190	537	397	356	39	72
150*	95	95	204	95	147	400	238	644	453	428	50	112
175*	105	108	235	105	169	410	275	686	496	485	50	160

CAD RFID INFO

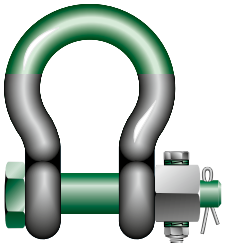
* For shackles WLL 150 t and WLL 175 t available with and without LROS
* With round headed bolt
* Excluded from ABS Type Approval

Green Pin Super® Bow Shackle FN

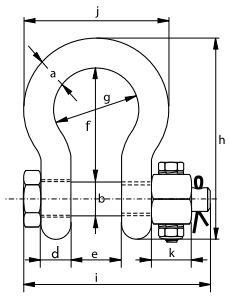
Grade 8 bow shackle with safety bolt and fixed nut

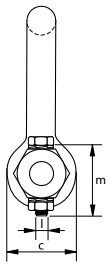
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 8, 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:** -20 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	m mm	Nm	kg
3.3	13.5	16	34	13	22	51	32	90	80	59	13	M6	35	8.4	0.44
5	16	19	40	16	27	64	43	110	98	75	17	M6	40	8.4	0.79
7	19	22	46	19	31	76	51	129	115	89	19	M6	45	8.4	1.26
9.5	22	25	52	22	36	83	58	144	130	102	22	M8	50	20	1.88
12.5	25	28	59	25	43	95	68	164	150	118	25	M8	55	20	2.78
15	28	32	67	28	47	108	75	186	166	131	27	M10	60	39	3.87
18	32	35	73	32	51	115	83	201	184	147	30	M10	65	39	5.26
21	35	38	79	35	57	133	92	227	197	162	33	M10	70	39	6.94
30	38	42	88	38	60	146	99	249	202	175	19	M8	75	20	8.79
40	45	50	104	45	74	178	126	300	243	216	23	M8	90	20	15
55	57	57	119	57	83	197	138	342	283	252	26	M10	100	39	22
85	70	70	145	70	105	260	180	438	339	320	32	M12	120	68	42
120	83	83	164	83	127	330	190	537	397	356	39	M12	140	68	70
150*	95	95	204	95	147	400	238	644	453	428	50	M12	150	68	112
175*	105	108	235	105	169	410	275	686	496	485	50	M12	160	68	160

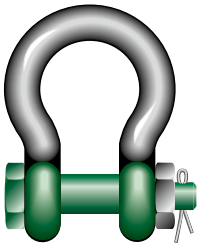
CAD RFID INFO

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

Green Pin Polar® Bow Shackle BN

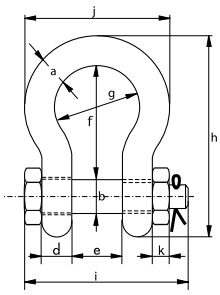
Grade 8 bow shackle with safety bolt for use under low temperatures

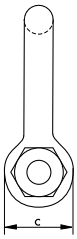
Scan for additional product details



G-5163

- **Material:** bow and pin alloy steel, grade 8, 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:** -60 °C up to +200 °C
- **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





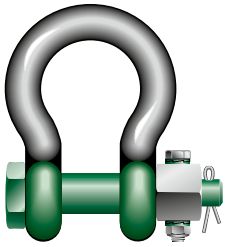
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
2	13.5	16	34	13	22	51	32	90	80	59	13	0.42
3.25	16	19	40	16	27	64	43	110	98	75	17	0.74
4.75	19	22	46	19	31	76	51	129	115	89	19	1.18
6.5	22	25	52	22	36	83	58	144	130	102	22	1.77
8.5	25	28	59	25	43	95	68	164	150	118	25	2.58
9.5	28	32	67	28	47	108	75	186	166	131	27	3.66
12	32	35	73	32	51	115	83	201	184	147	30	4.91
13.5	35	38	79	35	57	133	92	227	197	162	33	6.54
17	38	42	88	38	60	146	99	249	202	175	19	8.19
25	45	50	104	45	74	178	126	300	243	216	23	14.2
35	50	57	112	50	83	197	138	332	269	238	26	19.9
42.5	57	65	132	57	95	222	160	378	301	274	29	28.3
55	65	70	145	65	105	260	180	433	329	310	32	39.6
85	75	83	167	75	127	330	190	530	381	340	39	62

CAD | RFID | INFO

Green Pin Polar® Bow Shackle FN

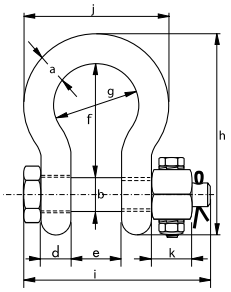
Grade 8 bow shackle with safety bolt and fixed nut for use under low temperatures

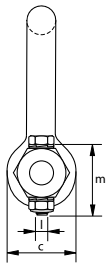
Scan for additional product details »



G-5143

- **Material:** bow and pin alloy steel, grade 8, 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:** -60 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	m mm	Nm	kg
2	13.5	16	34	13	22	51	32	90	80	59	13	M6	35	8.4	0.42
3.25	16	19	40	16	27	64	43	110	98	75	17	M6	40	8.4	0.74
4.75	19	22	46	19	31	76	51	129	115	89	19	M6	45	8.4	1.18
6.5	22	25	52	22	36	83	58	144	130	102	22	M8	50	20	1.77
8.5	25	28	59	25	43	95	68	164	150	118	25	M8	55	20	2.58
9.5	28	32	67	28	47	108	75	186	166	131	27	M10	60	39	3.66
12	32	35	73	32	51	115	83	201	184	147	30	M10	65	39	4.91
13.5	35	38	79	35	57	133	92	227	197	162	33	M10	70	39	6.54
17	38	42	88	38	60	146	99	249	202	175	19	M8	75	20	8.19
25	45	50	104	45	74	178	126	300	243	216	23	M8	90	20	14.2
35	50	57	112	50	83	197	138	332	269	238	26	M10	100	39	19.9
42.5	57	65	132	57	95	222	160	378	301	274	29	M12	110	68	28.3
55	65	70	145	65	105	260	180	433	329	310	32	M12	120	68	39.6
85	75	83	167	75	127	330	190	530	381	340	39	M12	140	68	62

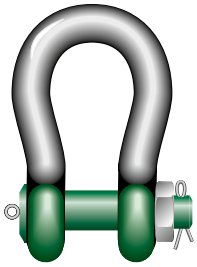
CAD | RFID | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

Green Pin Polar® Heavy Duty Bow Shackle BN

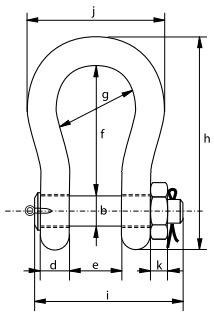
High load capacity, grade 8 bow shackle with safety bolt for use under low temperatures

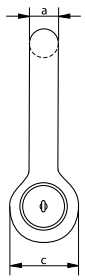
Scan for additional product details



P-6031

- **Material:** bow and pin alloy steel, grade 8, 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 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg	kg
120	95	95	204	95	147	400	238	644	453	428	50	28.1	110
150	105	108	235	105	169	410	275	686	496	485	50	39.2	160
200	120	130	270	120	179	513	290	833	564	530	71	69.2	235
250	130	140	284	130	205	554	305	896	614	565	71	85.5	285
300	140	150	308	140	205	618	305	987	644	585	81	102	368
400	170	175	376	164	231	668	325	1114	690	665	70	151	560
500	180	185	398	164	256	718	350	1190	720	710	70	173	716
600	200	205	444	189	282	718	375	1243	810	775	70	228	975
700	210	215	454	204	308	718	400	1263	870	820	70	265	1075
800	210	220	464	204	308	718	400	1270	870	820	70	276	1100
900	220	230	485	215	328	718	420	1296	920	860	70	319	1250
1000	240	240	515	215	349	718	420	1336	940	900	70	351	1460
1250	260	270	585	230	369	768	450	1456	1025	970	70	481	1940
1500	280	290	625	230	369	818	450	1556	1025	1010	70	556	2305

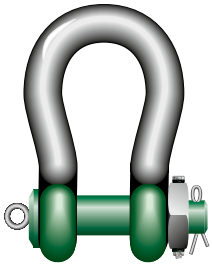
CAD RFID

* 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

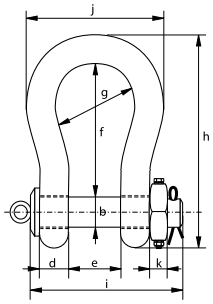
High load capacity, grade 8 bow shackle with safety bolt and fixed nut for use under low temperatures

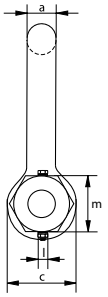
Scan for additional product details



P-6011

- **Material:** bow and pin alloy steel, grade 8, 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 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	m mm	Nm	kg	kg
120	95	95	204	95	147	400	238	644	453	428	50	M12	150	68	28.1	110
150	105	108	235	105	169	410	275	686	496	485	50	M12	160	68	39.2	160

CAD RFID INFO

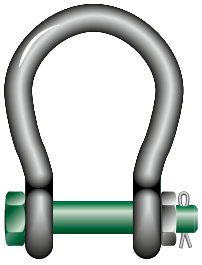
* For shackles ≥ WLL 120 t available with or without LROS

Green Pin BigMouth® Bow Shackle BN

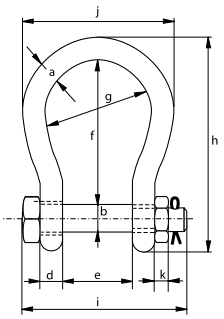
Grade 8 bow shackle with safety bolt and wider shackle mouth

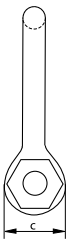
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 8, quenched and tempered
- **Safety Factor:** MBL equals 6 x WLL
- **Standard:** ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC[a] CE IIA
- **Article code:** scan QR code to see article codes



G-4263





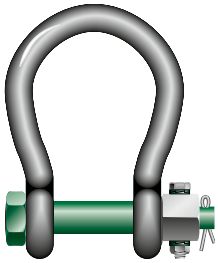
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
4.75	22	25	52	22	63	112	88	173	157	132	22	2.08
6.5	25	28	59	25	75	135	105	204	183	155	25	3.14
8.5	28	32	66	28	82	148	115	225	205	171	27	4.36
9.5	32	35	72	32	90	162	126	248	224	190	30	5.95
12	35	38	79	35	100	180	140	274	245	210	33	7.87
16	38	42	88	38	106	216	159	319	248	235	19	10.2
25	45	50	103	45	127	248	175	370	296	265	23	16.7
30	50	57	118	50	146	273	207	411	332	307	26	25
55	65	70	145	65	165	314	213	487	389	343	32	45
75	83	83	164	83	184	330	254	537	455	420	39	70

CAD RFID

Green Pin BigMouth® Bow Shackle FN

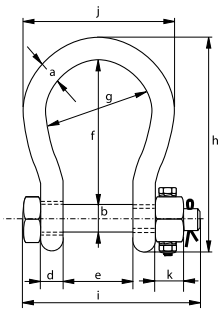
Grade 8 bow shackle with safety bolt, fixed nut and wider shackle mouth

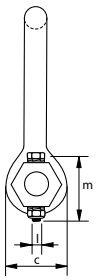
Scan for additional product details



G-4243

- **Material:** bow and pin alloy steel, grade 8, quenched and tempered
- **Safety Factor:** MBL equals 6 x WLL
- **Standard:** ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature range:** -20 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes





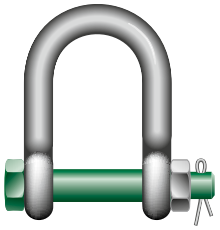
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	securing bolt thread	securing bolt length	torque	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	m mm	Nm	kg
4.75	22	25	52	22	63	112	88	173	157	132	22	M8	50	20	2.08
6.5	25	28	59	25	75	135	105	204	183	155	25	M8	55	20	3.14
8.5	28	32	66	28	82	148	115	225	205	171	27	M10	60	39	4.36
9.5	32	35	72	32	90	162	126	248	224	190	30	M10	65	39	5.95
12	35	38	79	35	100	180	140	274	245	210	33	M10	70	39	7.87
16	38	42	88	38	106	216	159	319	248	235	19	M8	75	20	10.2
25	45	50	103	45	127	248	175	370	296	265	23	M8	90	20	16.7
30	50	57	118	50	146	273	207	411	332	307	26	M10	100	39	25
55	65	70	145	65	165	314	213	487	389	343	32	M12	120	68	45
75	83	83	164	83	184	330	254	537	455	420	39	M12	140	68	70

CAD RFID INFO

Green Pin BigMouth® Dee Shackle BN

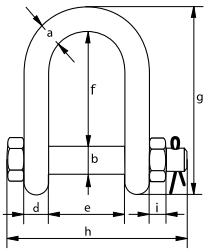
Dee shackle with a longer inside length, wider mouth and safety bolt

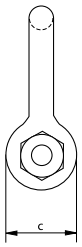
Scan for additional product details



- **Material:** bow and pin alloy steel, grade 8, quenched and tempered
- **Safety Factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes

G-4553





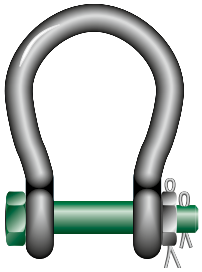
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	thickness nut	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
4.6	19	22	46	19	70	116	169	154	19	1.50
8.6	25	28	59	25	83	140	208	190	25	3.13
15.5	38	42	88	38	115	178	281	257	19	9.42

CAD

Green Pin BigMouth® Towing Shackle BN

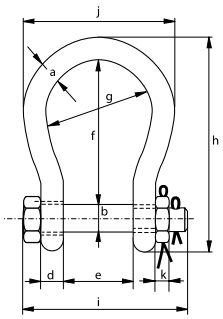
Grade 8 towing bow shackle with safety bolt and wider shackle mouth

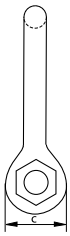
Scan for additional product details



G-4463

- **Material:** bow and pin alloy steel, grade 8, 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





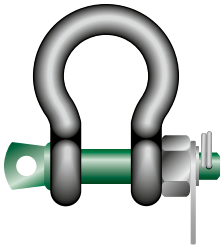
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
22	38	42	88	38	106	216	159	319	248	235	19	10.2
30	45	50	103	45	127	248	175	370	296	265	24	16.7
40	50	57	118	50	146	273	207	411	338	307	27	25
55	65	70	145	65	165	314	213	487	389	343	33	45
100	83	83	164	83	184	330	254	540	455	420	40	70

CAD

Green Pin® Catch Shackle BN

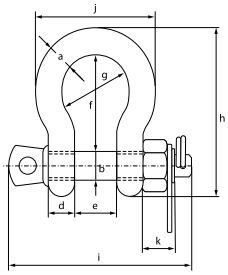
Standard bow shackle with safety bolt which enables all components to be tethered

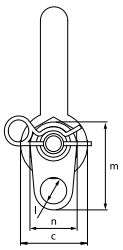
Scan for additional product details



G-4163H

- **Material:** bow and pin high tensile steel, grade 6, 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 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	m mm	n mm	kg
2	13.5	16	34	13	22	51	32	89	102	58	19	15	48.4	27	0.47
3.25	16	19	40	16	27	64	43	110	122	75	23	15	53.7	31.8	0.81
4.75	19	22	46	19	31	76	51	129	143	89	26	15	60.1	36.5	1.32
6.5	22	25	52	22	36	83	58	144	160.5	102	29	15	65.5	41.3	1.92
8.5	25	28	59	25	43	95	68	164	183	118	32	15	70.5	46	2.77
9.5	28	32	66	28	47	108	75	185	201	131	34	15	74	50.8	3.91

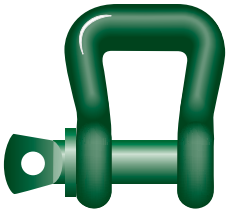
CAD | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

Scan for additional product details »

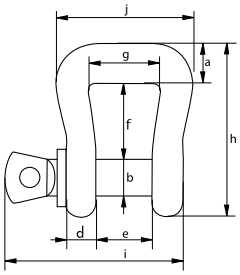
Green Pin® Web Sling Shackle SC

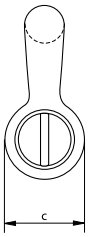
Shackle for synthetic web slings with screw collar pin



- **Material:** bow and pin alloy steel, grade 8, 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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
3.25	20	19	40	16	27	38	35	87	89	68	0.66
4.75	24	22	46	19	31	48	46	106	103	85	1.10
6.5	27	25	52	22	36	72	62	137.5	119	108.5	1.79
8.5	31	28	59	25	43	83.5	79	158	137	133.5	2.74

CAD

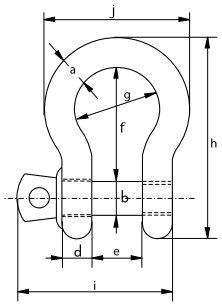
Green Pin® Theatre Shackle SC

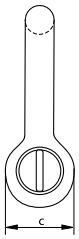
Matte black bow shackle with screw collar pin



- **Material:** bow and pin high tensile steel, grade 6, 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 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
0.33	5	6	12	5	9.5	22	16	36	29.5	26	0.02
0.5	7	8	16	7	12	29	20	48	38	34	0.05
0.75	9	10	20	9	13.5	32	22	56	46.5	40	0.10
1	10	11	23	10	17	37	26	64	54	46	0.14
1.5	11	13	25	11	19	43	29	73	59.5	51	0.19
2	13.5	16	34	13	22	51	32	90	73	59	0.36
3.25	16	19	40	16	27	64	43	110	89	75	0.63
4.75	19	22	46	19	31	76	51	129	103	89	1.01
6.5	22	25	52	22	36	83	58	144	119	102	1.50
8.5	25	28	59	25	43	95	68	164	137	118	2.21

C

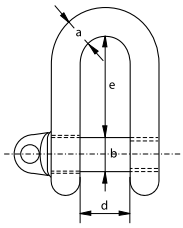
Shackles generally to DIN 82101 type A

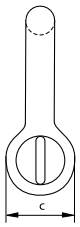
Dee shackle with screw collar pin



- **Material:** bow and pin high tensile steel, grade 4
- **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
	t	a mm	b mm	c mm	d mm	e mm	kg
0.1	0.1	5	5	10	7	15.5	0.02
0.16	0.16	6	6	12	8	18	0.02
0.25	0.25	8	8	16	11	24	0.05
0.4	0.4	10	10	20	14	30	0.10
0.6	0.63	12	12	24	17	36	0.18
1	1	13	16	32	21	49	0.30
1.6	1.6	16	20	40	27	61	0.57
2	2	20	22	44	30	67	0.98
2.5	2.5	22	24	48	33	73	1.30
3	3.15	25	27	54	38	83.5	1.85
4	4	28	30	60	42	91	2.53
5	5	32	36	72	47	111	4
6	6.3	36	39	78	53	119.5	5.30
8	8	41	45	90	60	139.5	7.90
10	10	44	48	96	66	147	10
12	12	49	52	104	73	158	13.5
16	16	55	60	120	81	185	19.2
20	20	61	68	136	90	211	28
25	25	67	72	144	100	221	34

C

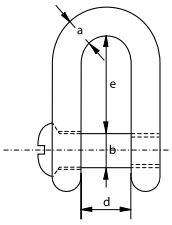
Shackles generally to DIN 82101 type B

Dee shackle with counter sunk screw pin



- **Material:** bow and pin high tensile steel, grade 4
- **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





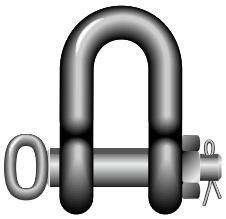
no.	working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
	t	a mm	b mm	c mm	d mm	e mm	kg
0.4	0.4	10	10	20	14	30	0.09
0.6	0.63	12	12	24	17	36	0.17
1	1	13	16	32	21	49	0.29
1.6	1.6	16	20	40	27	61	0.54
2	2	20	22	44	30	67	0.98
2.5	2.5	22	24	48	33	73	1.23
3	3.15	25	27	54	38	83.5	1.80
4	4	28	30	60	42	91	2.60
5	5	32	36	72	47	111	3.80
6	6.3	36	39	78	53	119.5	5.20
8	8	41	45	90	60	139.5	7.60
10	10	44	48	96	66	147	9.70

C

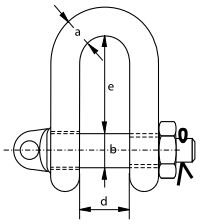
Shackles generally to DIN 82101 type C

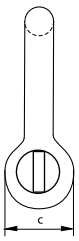
Dee shackle with safety bolt

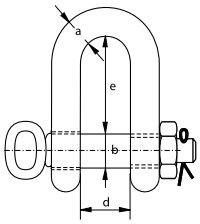


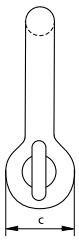


S-3356
G-3356









- **Material:** bow and pin high tensile steel, grade 4
- **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
	t	a mm	b mm	c mm	d mm	e mm	kg
0.4	0.4	10	10	20	14	30	0.11
0.6	0.63	12	12	24	17	36	0.20
1	1	13	16	32	21	49	0.37
1.6	1.6	16	20	40	27	61	0.69
2	2	20	22	44	30	67	1.13
2.5	2.5	22	24	48	33	73	1.50
3	3.15	25	27	54	38	83.5	2.15
4	4	28	30	60	42	91	2.93
5	5	32	36	72	47	111	4.70
6	6.3	36	39	78	53	119.5	6.33
8	8	41	45	90	60	139.5	8.60
10	10	44	48	96	66	147	10.8
12	12	49	52	104	73	158	14.4
16	16	55	60	120	81	185	20.5
20	20	61	68	136	90	211	27.9
25	25	67	72	144	100	221	36
32	32	74	80	160	110	246	49
40	40	75	90	180	125	276	70
50	50	88	100	200	140	307	100
63	63	96	110	220	155	339	140
80	80	110	125	250	175	385.5	200
100	100	125	140	280	200	430	280

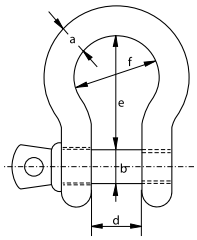
C

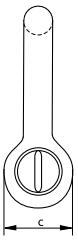
Yellow Pin Shackles

Bow shackle with screw collar pin



G-3161





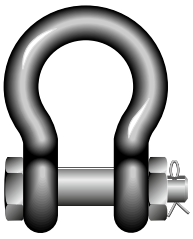
- **Material:** bow and pin high tensile steel, grade 6
- **Standard:** generally to US Fed. Spec. RR-C-271
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 CE IIA
- **Note:** import quality

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
0.33	5	6	14	9,5	22	15	0.03
0.5	6	8	16	12	29	20	0.05
0.75	8	10	19	13,5	31	21	0.08
1	10	11	23	17	37	26	0.14
1.5	11	13	27	19	43	29	0.20
2	13	16	30	20	48	33	0.33
3.25	16	19	38	27	60	43	0.62
4.75	19	22	46	32	71	50	1.07
6.5	22	25	53	36	84	58	1.62
8.5	25	28	61	43	95	68	2.28
9.5	28	32	68	46	108	74	3.36
12	32	35	76	51	119	82	4.31
13.5	35	38	84	57	133	92	6.14
17	38	42	92	60	146	98	7.81
25	45	50	106	73	177	127	12.6

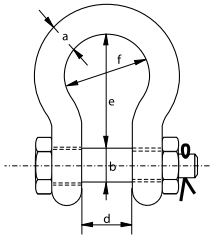
C

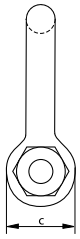
Yellow Pin Shackles

Bow shackle with safety bolt



G-3163





- **Material:** bow and pin high tensile steel, grade 6
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
2	13	16	30	20	48	33	0.36
3.25	16	19	38	27	60	43	0.70
4.75	19	22	46	32	71	50	1.10
6.5	22	25	53	36	84	58	1.61
8.5	25	28	61	43	95	68	2.42
9.5	28	32	68	46	108	74	3.35
12	32	35	76	51	119	82	5.32
13.5	35	38	84	57	133	92	7.19
17	38	42	92	60	146	98	9.44
25	45	50	106	73	177	127	13.8

C

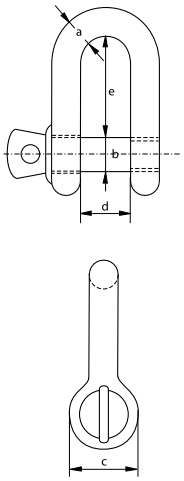
Yellow Pin Shackles

Dee shackle with screw collar pin



- **Material:** bow and pin high tensile steel, grade 6
- **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

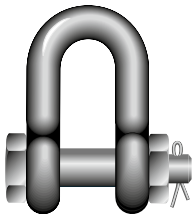


working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
t	a mm	b mm	c mm	d mm	e mm	kg
0.33	5	6	12	9,5	19	0.03
0.5	6	8	16	12	22	0.04
0.75	8	10	19	13,5	26	0.08
1	10	11	23	17	32	0.13
1.5	11	13	27	19	37	0.20
2	13	16	30	20	41	0.28
3.25	16	19	38	27	51	0.57
4.75	19	22	46	32	60	1.19
6.5	22	25	53	36	71	1.43
8.5	25	28	61	43	81	2.16
9.5	28	32	68	46	90	3.06
12	32	35	76	51	100	4.11
13.5	35	38	84	57	111	5.28
17	38	42	92	60	122	6.69
25	45	50	106	73	146	12.1

C

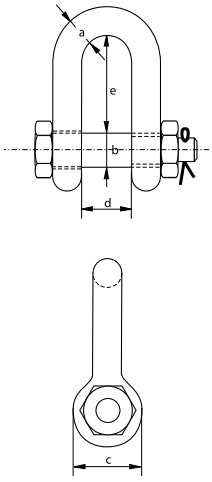
Yellow Pin Shackles

Dee shackle with safety bolt



- **Material:** bow and pin high tensile steel, grade 6
- **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

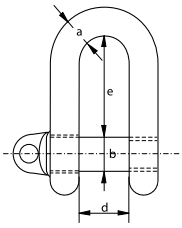


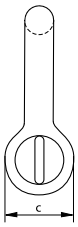
working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
t	a mm	b mm	c mm	d mm	e mm	kg
2	13	16	30	20	41	0.33
3.25	16	19	38	27	51	0.62
4.75	19	22	46	32	60	1.02
6.5	22	25	53	36	71	1.49
8.5	25	28	61	43	81	2.26
9.5	28	32	68	46	90	3.20
12	32	35	76	51	100	4.91
13.5	35	38	84	57	111	5.84
17	38	42	92	60	122	8.40
25	45	50	106	73	146	11.9

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
t	a mm	b mm	c mm	d mm	e mm	kg
0.25	6	10	19	13	25	0.11
0.5	10	13	25	19	38	0.17
0.75	13	16	32	28	54	0.35
1.5	16	19	38	32	64	0.66
2	19	22	44	38	73	1.02
3	22	25	51	44	83	1.57
3.75	25	28	57	51	95	2.30
5	28	32	64	54	105	3.20
6	32	35	70	60	114	4.30
7	35	38	76	67	127	5.40
9.5	38	45	89	70	137	6.80
11.25	42	48	95	76	146	8.70
13	44	51	102	83	156	11
14.25	48	54	108	92	178	14.3
16.25	51	57	114	98	187	20
18	54	60	121	105	197	26.4
20	57	64	127	108	210	28.3
25	64	73	146	121	235	35
30	70	79	159	133	260	49
35	76	86	171	146	279	63.6
40	79	89	178	149	292	71.7
50	89	102	203	171	330	101
65	102	114	229	191	375	151
80	114	127	254	219	419	215

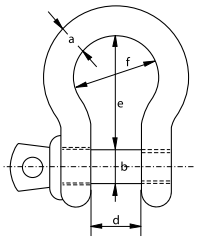
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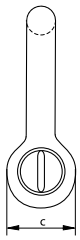
Commercial Shackles

Bow shackle with screw collar pin



E-1161





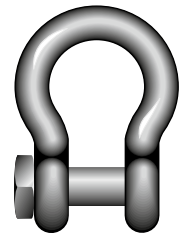
- **Material:** mild steel, untreated, grade 3
- **Finish:** electro-galvanized
- **Certification:** 2.1
- **Note:** not to be used for lifting applications

diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	f mm	kg
5	5	10	10	20	15	1.40
6	6	12	12	24	18	2.40
8	8	16	16	32	24	5.40
10	10	20	20	40	30	10.6
11	11	22	22	44	33	16.4
12	12	24	24	48	36	19.4
14	14	28	28	56	42	44
16	16	32	32	64	48	44.2
19	19	38	38	76	57	82.8
22	22	44	44	88	66	116
25	25	50	50	100	75	168
28	28	56	56	112	84	232
32	32	64	64	128	96	382
38	38	76	76	152	114	623

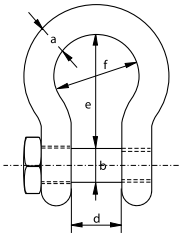
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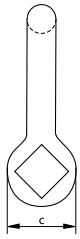
Commercial Shackles

Bow shackle with square head screw pin



S-1164





- **Material:** mild steel, untreated, grade 3
- **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 mm	b mm	c mm	d mm	e mm	f mm	kg
6	6	12	12	24	18	2.70
8	8	16	16	32	24	6.40
10	10	20	20	40	30	12.5
11	11	22	22	44	33	16.6
12	12	24	24	48	36	21.6
14	14	28	28	56	42	34.3
16	16	32	32	64	48	51.2
19	19	38	38	76	57	100
22	22	44	44	88	66	133
25	25	50	50	100	75	195
28	28	56	56	112	84	275
32	32	64	64	128	96	410
38	38	76	76	152	114	686

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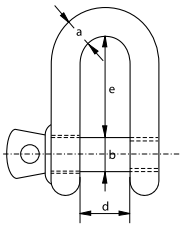
Commercial Shackles

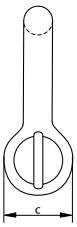
Dee shackle with screw collar pin

- **Material:** mild steel, untreated, grade 3
- **Finish:** electro-galvanized
- **Certification:** 2.1
- **Note:** not to be used for lifting applications



E-1151





diameter bow	diameter pin	diameter eye	width inside	length inside	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	kg
5	5	10	10	20	1.40
6	6	12	12	24	2.20
8	8	16	16	32	5.20
10	10	20	20	40	11.8
11	11	22	22	44	14
12	12	24	24	48	20.5
14	14	28	28	56	29.4
16	16	32	32	64	42.6
19	19	38	38	76	72.6
22	22	44	44	88	108
25	25	50	50	100	185
28	28	56	56	112	226
32	32	64	64	128	358
38	38	76	76	152	602

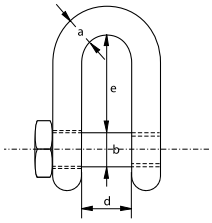
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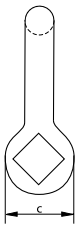
Commercial Shackles

Dee shackle with square head screw pin



S-1154





- **Material:** mild steel, untreated, grade 3
- **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 mm	b mm	c mm	d mm	e mm	kg
6	6	12	12	24	2.60
8	8	16	16	32	6.17
10	10	20	20	40	12
11	11	22	22	44	16
12	12	24	24	48	20.8
14	14	28	28	56	33.1
16	16	32	32	64	49.4
19	19	38	38	76	96.4
22	22	44	44	88	128
25	25	50	50	100	188
28	28	56	56	112	265
32	32	64	64	128	395
38	38	76	76	152	661

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

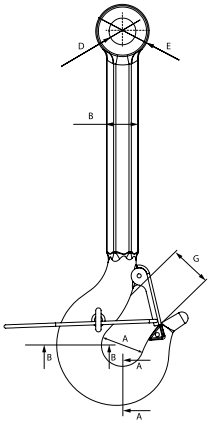
Release & retrieve ROV eye shank hook (grade 8)

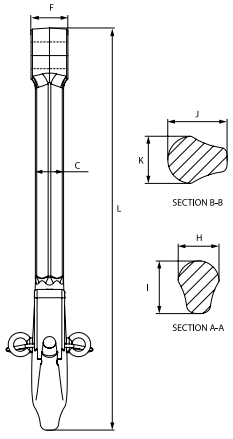
Scan for additional product details

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white
- **Temperature Range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg
12	63	47	42	40	80	38	52	45	58	67	53	600	10.2
16	71	56	50	45	90	45	61	53	67	80	63	650	14.7
22	80	63.4	56	55	110	51	69	60	75	90	74	682	31
32	90	73	64	60	120	54	77	67	90	110	82	812	32
55	125	102	90	75	150	74	105	95	118	140	112	919	70
80	140	115	101	90	180	94	118	106	137	175	125	1049	104

CAD RFID

Green Pin® ROV Hook E GR8

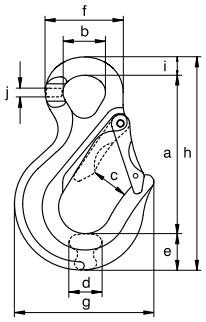
Release ROV eye hook (grade 8)

Scan for additional product details

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white
- **Temperature Range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
8.2	191	52	43	40	43	94	165	255	21	16.5	3.47
12.8	237	61	61	49	61	115	208	326	28	21	7.14
15.5	280	72	75	54	64	132	242	375	30	23	10.2

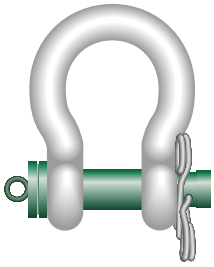
CAD RFID

Green Pin® Spring Pin ROV Shackle

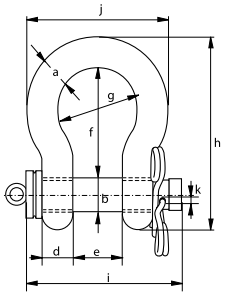
Release ROV shackle (grade 8) with spring pins

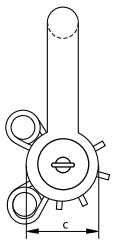
Scan for additional product details

- **Material:** bow and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C
- **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



P-5363





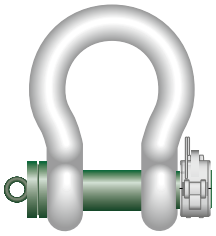
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
6.5	22	25	52	22	36	83	58	144	130	102	5.5	1.70
9.5	28	32	66	28	47	108	75	185	166	131	6.5	3.40
12	32	35	72	32	51	115	83	201	184	147	6.5	4.70
17	38	42	88	38	60	146	99	249	202	175	6.5	8
25	45	50	103	45	74	178	126	300	243	216	8.5	13.6
35	50	57	116	50	83	197	138	334	269	238	8.5	19.1
42.5	57	65	130	57	95	222	160	377	301	274	8.5	28.3
55	65	70	145	65	105	260	180	433	329	310	8.5	38
85	75	83	162	75	127	329	190	527	375	340	8.5	60

CAD RFID INFO

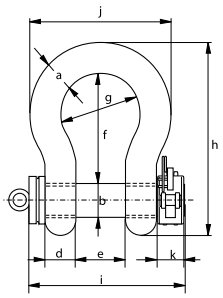
Green Pin® Locking Clamp ROV Shackle

Release ROV shackle (grade 8) with locking clamp

Scan for additional product details



P-5365





- **Material:** bow and pin alloy steel, grade 8, 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:** -60 °C up to +200 °C (-40 °C up to +200 °C 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

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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg	kg
6.5	22	25	52	22	36	83	58	164	140	102	45	0.9	2.17
9.5	28	32	66	28	47	108	75	200	172	131	48	1.6	4.25
12	32	35	72	32	51	115	83	213	184	147	48	1.9	5.36
17	38	42	88	38	60	146	99	266	209	175	48	3.4	9.27
25	45	50	103	45	74	178	126	309	243	216	48	5	14.6
35	50	57	116	50	83	197	138	350	269	238	48	6.5	20.7
42.5	57	65	130	57	95	222	160	377	301	274	48	10.2	28.3
55	65	70	145	65	105	260	180	440	329	310	48	12	41
85	75	83	162	75	127	329	190	527	375	340	48	17.5	61
120	95	95	208	91	147	400	238	647	440	428	60	29.6	110
150	105	108	238	102	169	410	275	688	490	485	60	38.6	160
200	120	130	279	113	179	513	290	838	520	530	60	60.6	235
250	130	140	299	118	205	554	305	904	560	565	60	74.9	285

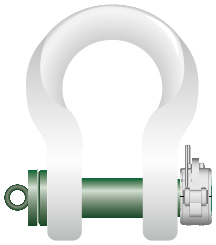
CAD RFID INFO

* For shackles ≥ WLL 150 t

Green Pin® Locking Clamp ROV Sling Shackle

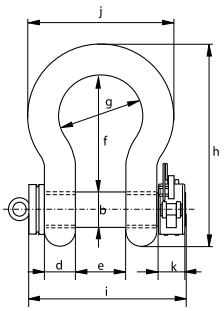
Release ROV Sling shackle (grade 8) with locking clamp

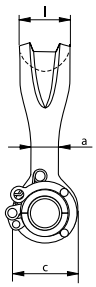
Scan for additional product details



P-6065

- **Material:** bow and pin alloy steel, grade 8, quenched and tempered
- **Safety Factor:** MBL equals 5 x WLL
- **Finish:** shackle bow painted white, pin painted green
- **Temperature Range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg	kg
12.5	28	28	61	25	44	121	82	197	143	146	31	54	1.2	4.27
18	35	35	69	30	54	148	102	239	184	180	31	64	1.9	6.85
30	40	42	90	35	69	165	126	279	210	200	40	79	3.5	12.5
40	55	51	109	45	84	199	140	331	256	235	40	97	5.4	20.3
55	60	57	115	55	90	240	160	389	289	270	40	100	7	30.4
75	68	70	125	54	110	290	185	473	317	317	40	120	11.6	45
125	85	80	154	85	137	366	220	583	413	390	40	150	18.1	92
150	94	95	179	89	147	391	253	645	445	434	55	170	29.1	140
200	110	105	199	100	158	481	280	759	480	482	55	205	37	205
250	126	120	227	110	179	542	300	859	523	530	55	240	49.4	264
300	135	134	245	122	195	601	350	947	563	620	55	265	66.5	360

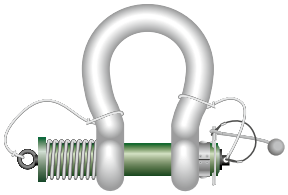
CAD RFID INFO

* With additional charges

Green Pin® Spring Release ROV Shackle

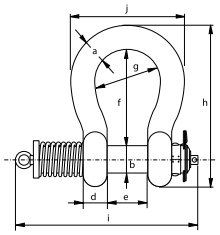
Release ROV shackle (grade 8) with spring

Scan for additional product details



P-5367

- **Material:** bow and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -40 °C up to +200 °C
- **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.





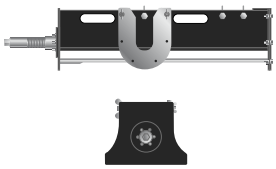
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight pin	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg	kg
12	32	35	72	32	51	115	83	201	291	147	2	5.24
13.5	35	38	80	35	57	133	92	227	301	162	2.4	7
17	38	42	88	38	60	146	99	249	360	175	3.5	9.25
25	45	50	103	45	74	178	126	300	370	216	5.2	15.5
35	50	57	116	50	83	197	138	334	400	238	7.1	20.4
42.5	57	65	130	57	95	222	160	377	460	274	11.3	39
55	65	70	145	65	105	260	180	433	490	310	13.8	42
85	75	83	162	75	127	329	190	527	587	340	23.3	67
120	95	95	208	91	147	399	238	646	687	428	37.4	123
150	105	108	238	102	169	410	275	688	727	485	49.2	168

* For shackles ≥ WLL 150 t

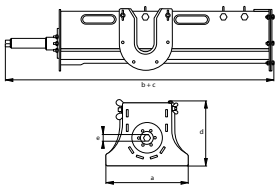
CAD RFID INFO

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

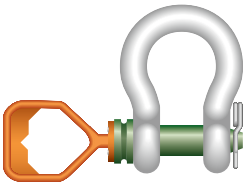
for shackle WLL	diameter bow	diameter pin	width	length closed position	length opened position	height	width	weight each
t	mm	mm	a mm	b mm	c mm	d mm	e mm	kg
42.5	57	65	300	1000	1500	225	24	34
55	65	70						
85	75	83						
120	95	95	340	1100	1750	285	24	42
150	105	108						

CAD INFO

Scan for additional product details

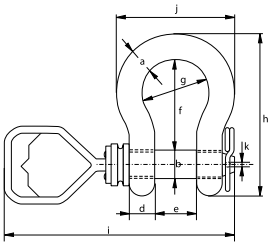
Green Pin® Tapered Pin ROV Shackle D

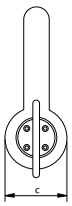
Release & retrieve ROV shackle (grade 8) with tapered pin and D-handle



P-5361D

- **Material:** bow and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C
- **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



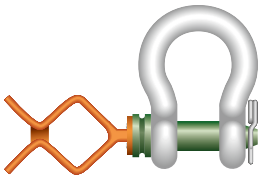


working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
6.5	22	25	52	22	36	83	58	144	345	102	3.5	3.79
9.5	28	32	67	28	47	108	75	185	381	131	5.5	5.38
12	32	35	72	32	51	115	83	201	393	147	6.5	6.50
17	38	42	88	38	60	146	99	249	417	175	8.5	8.19
25	45	50	103	45	74	178	126	300	464	216	8.5	14.2
35	50	57	111	50	83	197	138	331	484	238	8.5	19.9
42.5	57	65	130	57	95	222	160	377	516	274	7.5	28.3
55	65	70	145	65	105	260	180	433	545	310	7.5	39.6

CAD INFO

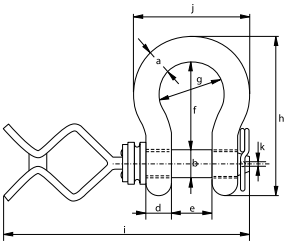
Green Pin® Tapered Pin ROV Shackle F

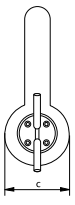
Release & retrieve ROV shackle (grade 8) with tapered screw pin and Fishtail handle



P-5361F

- **Material:** bow and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
6.5	22	25	52	22	36	83	58	144	419	102	3.5	4.06
9.5	28	32	66	28	47	108	75	185	455	131	5.5	3.66
12	32	35	72	32	51	115	83	201	467	147	6.5	4.91
17	38	42	88	38	60	146	99	249	491	175	8.5	8.19
25	45	50	103	45	74	178	126	300	538	216	8.5	14.2
35	50	57	111	50	83	197	138	331	558	238	8.5	19.9
42.5	57	65	130	57	95	222	160	377	590	274	7.5	28.3
55	65	70	145	65	105	260	180	433	619	310	7.5	39.6

CAD INFO

Scan for additional product details

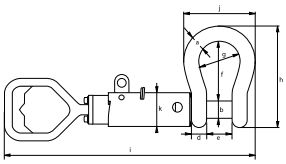
Green Pin® Guided Pin ROV Shackle D

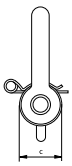
Release & retrieve ROV shackle (grade 8) with guiding tube and D-handle



P-5362D

- **Material:** shackle body and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes



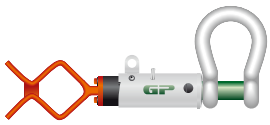


working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt		width	guide diameter	weight each
									close	open			
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm		j mm	k mm	kg
12	32	35	72	32	51	115	83	201	569	652	147	83	10
17	38	42	88	38	60	146	99	249	612	710	175	83	13
25	45	50	103	45	74	178	126	300	683	802	216	83	19
35	50	57	111	50	83	197	138	331	711	844	238	83	24
55	65	70	145	65	105	260	180	433	824	994	310	102	45

CAD INFO

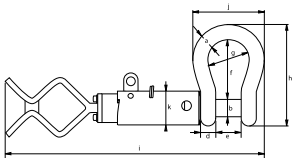
Green Pin® Guided Pin ROV Shackle F

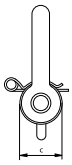
Release & retrieve ROV shackle (grade 8) with guiding tube and Fishtail handle



P-5362F

- **Material:** shackle body and pin alloy steel, grade 8, polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -60 °C up to +200 °C
- **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			
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm		j mm	k mm	kg
12	32	35	72	32	51	115	83	201	643	726	147	83	10
17	38	42	88	38	60	146	99	249	686	784	175	83	13
25	45	50	103	45	74	178	126	300	757	876	216	83	19
35	50	57	111	50	83	197	138	331	785	918	238	83	24
55	65	70	145	65	105	260	180	433	898	1068	310	102	45

CAD INFO

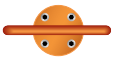
Scan for additional product details

Green Pin® D-handle

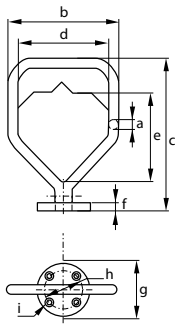
Accessory for Green Pin® ROV Shackle

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





P-5396D



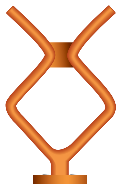
diameter	width	length	width	length inside	thickness	diameter	diameter	diameter	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
19	153	215	115	110	10	70	48	8.5	1.72

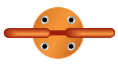
CAD

Green Pin® Fishtail handle

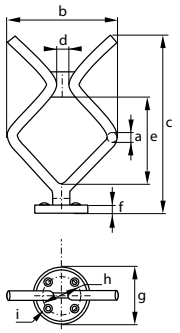
Accessory for Green Pin® ROV Shackle

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





P-5396F



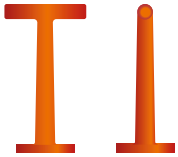
diameter	width	length	width	length inside	thickness	diameter	diameter	diameter	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
19	178	289	21	133	10	70	48	8.5	1.93

CAD

Scan for additional product details

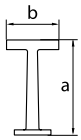
Green Pin® T-handle

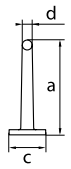
Accessory for Green Pin® ROV Shackle



P-5396T

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







diameter	width	length	length inside	thickness	diameter	diameter	diameter	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
19	100	181	152	10	70	48	8.5	0.99

CAD

Green Pin® Monkey fist

Accessory for Green Pin® ROV Shackle



F-5396M

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

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.

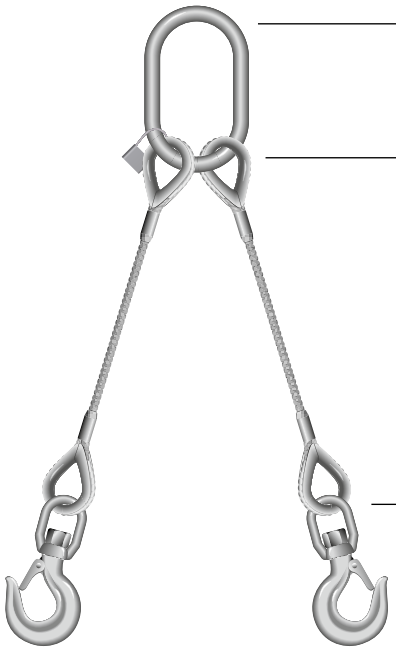
Index

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 8 chain

In the grade 8 subchapter, you will find the components which can be used to make a grade 8 steel chain sling.



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

Connectors (page 152)
Links

Chain (page 153)
Grade 8 steel chain

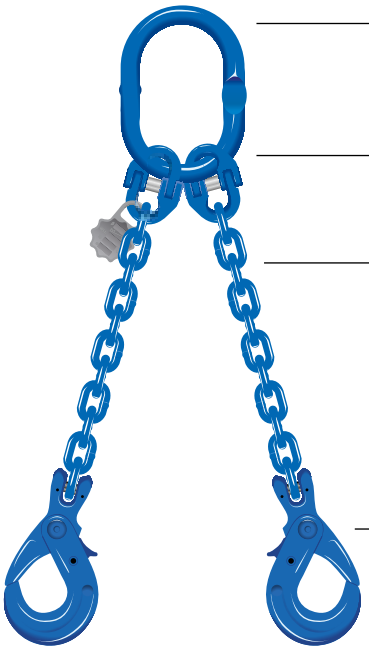
Shorteners (page 154)
Shortening hooks
Shortening clutches

End-fittings (page 156)
Hooks

Accessories (page 167)
Tags
Chip
Spareparts

3.3 For Grade 10 chain

In the grade 10 subchapter, you will find the components which can be used to make a grade 10 steel chain sling.



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

Connectors (page 184)
Links

Chain (page 185)
Grade 10 steel chain

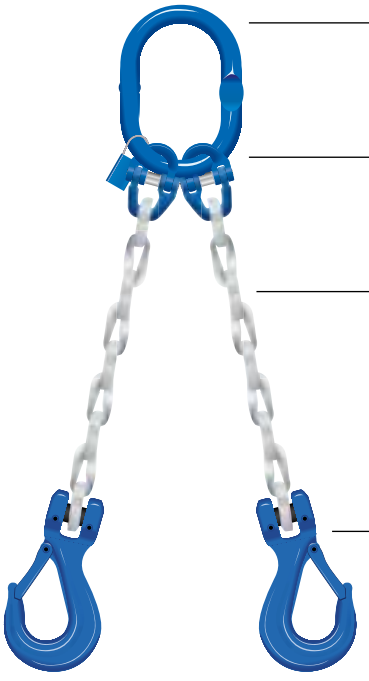
Shorteners (page 186)
Shortening hooks
Shortening clutches

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

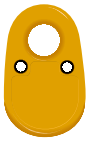
Applications

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 (t)		Minimum Breaking Load (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 10 master links with larger inside dimensions.

The Green Pin® DNV Master Link and Master Link Assembly are grade 8 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 8 master link for heavy-duty applications. The consistent Charpy V value of at least 42 J at -20 °C and 27 J at -40 °C 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 vertical are all more than 15°, 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

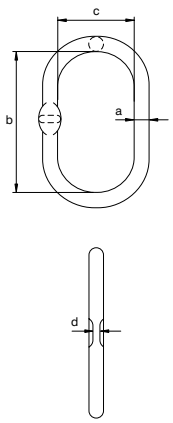
Grade 8 master link EN 1677-4

Scan for additional product details



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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		ß ≤ 45°	45° < ß ≥ 60°		b	c	d	
mm	mm	mm	mm	t	mm	mm	mm	kg
13	6/7	6	6/7	1.6	115	60	7	0.40
16	8	7/8	8	3.2	120	70	7	0.60
18	10	10	10	4.5	135	75	9	0.84
20	13	-	13	6.2	150	82	11	1.10
22	16	13	16	8.2	170	90	14	1.60
25	18	-	18	10.6	190	103	14	2.30
28	20	16	19	12.8	209	120	17	3.10
30	20/22	18	20/22	15.5	235	125	17	4
36	-	19/20	-	20	270	145	22	6.60
38	26	22	26	25	250	150	22	7.10
45	32	26	32	37	300	200	22	12.1
50	-	32	-	50	380	200	-	18
55	-	-	-	63	360	200	-	21
70	-	-	-	100	500	250	-	44
80	-	-	-	125	503	280	-	60.7

CAD INFO

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

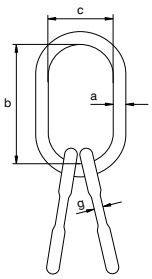
Green Pin® Master Link Assembly EN 1677-4 GR8

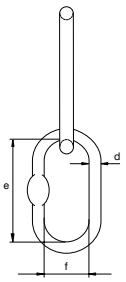
Grade 8 master link assembly EN 1677-4

Scan for additional product details »



MTS





- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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	ß ≤ 45°	45° < ß ≥ 60°		b	c	d	e	f	g	
mm	mm	mm	t	mm	mm	mm	mm	mm	mm	kg
16	6	6/7	2.5	120	70	13	115	60	7	1.20
18	6/7	8	3.5	135	75	16	120	70	7	3.10
22	8	10	6.5	170	90	18	135	75	9	3.30
25	10	13	8.5	190	103	20	150	82	11	4.50
28	-	-	10	209	120	20	150	82	11	5.40
30	13	16	13	235	125	22	170	90	14	7.20
36	16	18/19	17	270	145	25	190	103	14	11.2
38	-	20	20.8	250	150	28	209	120	17	13.3
45	18/20	22	30	300	200	36	270	145	22	25.3
50	22	26	40	380	200	38	250	150	22	32.2
55	26	32	50	360	200	38	250	150	22	35.2
60	-	-	60	430	220	45	300	200	45	54.2
70	32	-	80	500	250	55	360	200	55	86
80	-	-	100	503	250	55	360	200	55	103

CAD | INFO

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

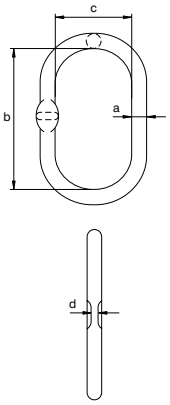
Green Pin® Master Link GR10

Grade 10 master link

Scan for additional product details



UMS



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with values for grade 10 and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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		ß ≤ 45°	45° < ß ≤ 60°		b	c	d	
mm	mm	mm	mm	t	mm	mm	mm	kg
13	6	6	6	2	115	60	7	0.40
16	8	-	8	3.2	120	70	7	0.60
18	10	8	10	5.4	135	75	9	0.84
22	13	10	13	8.2	170	90	11	1.60
25	16	13	16	11.2	190	103	14	2.17
30	18/20	16	18/20	16	235	125	17	4
38	22	20/22	22	27.6	250	150	22	7.10

CAD

Green Pin® Master Link Assembly GR10

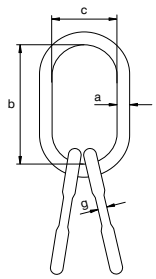
Grade 10 master link assembly

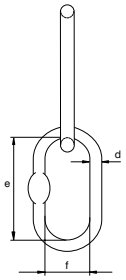
Scan for additional product details



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with values for grade 10 and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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	ß ≤ 45°	45° < ß ≤ 60°		b	c	d	e	f	g	
mm	mm	mm	t	mm	mm	mm	mm	mm	mm	kg
18	6	6	3.65	135	75	16	120	70	7	1.97
22	8	8/10	6.8	170	90	18	135	75	9	3.30
28	10	13	11	209	120	20	150	82	11	5.40
36	13	16	17.7	270	145	25	190	103	14	11.2
38	16	18/19	21.2	250	150	30	235	125	17	15.1
50	20	22	41.6	380	200	38	250	150	22	32.2

CAD

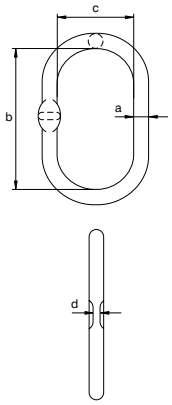
Green Pin® Wider Master Link GR10

Grade 10 wider master link

Scan for additional product details



UMSW



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with values for grade 10 and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	kg
4.1	17	160	90	9	0.85
6.7	19	160	90	9	1.08
11.5	25	210	115	13	2.43
17	33	270	140	17	5.40
27.7	38	275	150	21	7.50
45	50	380	200	50	17.7
64	56	400	200	56	23.5

CAD

Green Pin® Wider Master Link Assembly GR10

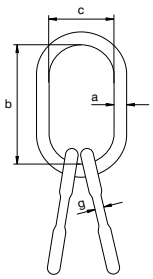
Grade 10 wider master link assembly

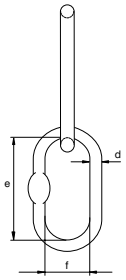
Scan for additional product details »

- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with values for grade 10 and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes



UMTSW





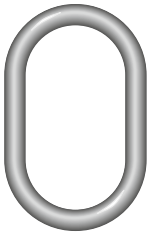
working load limit	diameter	length inside	width inside	diameter	length inside	width inside	thickness	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
4.3	19	160	90	14	120	70	9	1.96
6.7	23	180	100	17	160	90	9	3.50
28.1	40	300	160	33	270	140	17	19.8
38.3	45	340	180	38	275	150	21	27.8
75	60	400	200	50	380	200	50	62.5

CAD

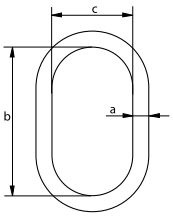
Green Pin® DNV Master Link

Grade 8 master link

Scan for additional product details



P-6810



- **Material:** alloy steel, grade 8
- **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 °C up to +200 °C
- **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 -20 °C up to +200 °C

working load limit	diameter	length inside	width inside	weight each
t	a mm	b mm	c mm	kg
4.1	16	150	75	0.68
7	22	270	140	2.28
9.3	26	270	140	3.11
14.5	28	270	140	3.78
19.5	28	200	110	3
19	32	270	140	5.02
26	36	270	140	6.46
30.5	40	280	155	8.46
45	45	320	175	12.2
51	50	350	195	16.5
75	65	410	220	33
100	75	450	250	49

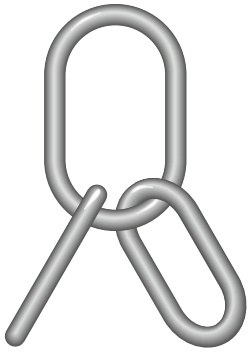
CAD INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

Green Pin® DNV Master Link Assembly

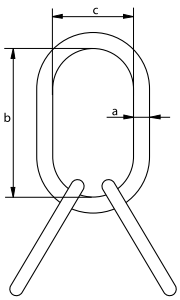
Grade 8 master link assembly

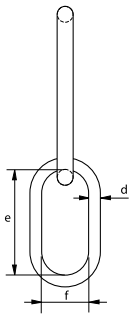
Scan for additional product details



- **Material:** alloy steel, grade 8
- **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 °C up to +200 °C
- **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 -20 °C up to +200 °C

P-6820





working load limit	diameter	length inside	width inside	diameter	length inside	width inside	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
4.1	16	150	75	14.5	125	60	1.62
7	22	270	140	22	162	90	5.22
9.3	26	270	140	22	162	90	6.05
14.5	28	270	140	22	162	90	6.73
19	32	270	140	28	200	110	10.9
26	36	270	140	28	200	110	12.4
30.5	40	280	155	32	270	140	18.5
40	45	320	175	36	270	140	25.1
51	50	350	195	45	320	175	40.9
75	65	410	220	50	350	195	66.1
100	75	450	250	65	410	220	115

CAD | INFO

TYPE APPROVED PRODUCT DNV DNV.COM/AF

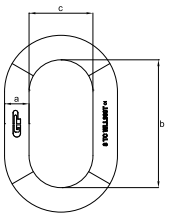
Green Pin® Heavy Duty Master Link

Grade 8 weldless heavy duty master link

Scan for additional product details



P-6815



- **Material:** alloy steel, grade 8
- **Safety Factor:** MBL equals 5 x WLL
- **Standard:** ASME B30.26
- **Finish:** painted silver and green
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] US [b] CE IIA
- **Article code:** scan QR code to see article codes

working load limit	diameter	length inside	width inside	weight each
t	a mm	b mm	c mm	kg
131	90	460	300	77
157	100	500	300	102
250	115	600	400	164
300	115	600	300	155
400	115	490	250	132

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

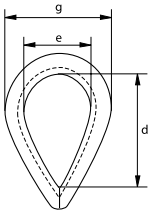
Thimbles

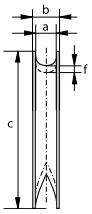
Standard commercial

- **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
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
4	4	7	25	16	11	2.5	19	0.50
5	5	8	31	22	16	3	25	0.80
6	6	10	37	26	19	3.5	30	1.40
8	8	12	51	34	24	5	38	2.80
9	9	13	57	38	29	5.5	44	3
10	10	16	64	42	32	5.5	49	4.80
12	12	18	76	51	38	6.5	57	8
14	14	20	82	57	40	8	62	10
16	16	22	89	60	42	9	66	15
18	18	26	102	67	45	10	73	22
20	20	28	115	76	51	11	81	25
22	22	30	127	83	54	12.5	87	32
24	24	32	138	90	64	14	100	46
26	26	36	152	102	68	14.5	107	66
28	28	38	165	110	73	16	115	77
30	30	42	178	120	79	17	125	80
32	32	44	203	143	93	18	141	130

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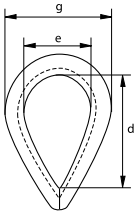
Thimbles

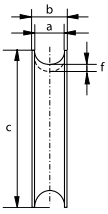
Heavy duty stub-end

- **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
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
8	9	13	51	35	22	4	44	0.50
10	11	15	64	47	30	4	54	0.80
12	13	18	76	57	35	5	62	1.40
14	15	21	89	65	45	6	76	2.80
16	18	22	102	75	50	6	83	3
18	20	28	114	85	53	7	91	4.80
20	22	30	127	94	60	8	102	8
22	24	31	140	107	65	9	110	10
24	26	34	152	114	70	9.5	118	15
28	30	39	178	130	80	10	134	22
32	34	41	203	157	100	10	162	25
36	38	48	229	175	115	11	182	32
40	42	51	254	198	120	12	188	46
44	46	62	280	214	130	14	210	66
50	53	65	305	220	140	18	248	77
56	57	68	356	245	150	23	262	80
64	67	85	407	286	185	20	280	130

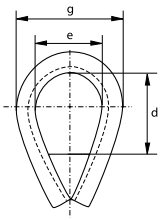
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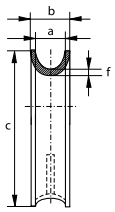
Thimbles

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 mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
35	55	220	100	80	10	150	3.20
40	65	245	120	90	12	160	5.10
50	80	290	125	110	16	200	9.20
62	100	360	160	140	20	250	17.4
72	115	390	175	160	20	265	19.4
85	125	470	245	190	20	300	29
100	150	540	290	200	25	370	39
115	165	570	300	210	25	380	52

For shackle

group		width groove a mm							
		35	40	50	62	72	85	100	115
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							

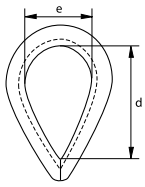
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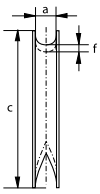
Thimbles

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
mm	a mm	c mm	d mm	e mm	f mm	kg
2.5	3	22	19	12	1.6	0.60
3.5	4	26	21	13	1.6	0.80
4	5	32	23	14	1.9	1
5	6	38	25	16	2.4	2
6	7	44	28	18	2.4	2
7	8	51	32	20	2.8	2.70
9	10	57	38	24	3.1	4.10
11	12	64	45	28	3.3	6.90
13	13	70	48	30	3.3	7.20
13	14	76	51	32	3.7	10.2
15	16	83	58	36	3.8	16.4
16	17	89	61	38	4.7	19
17	18	95	64	40	4.7	20.3
18	20	102	72	45	5.7	27.3
20	22	114	80	50	5.7	30.8
22	24	127	90	56	6.5	44.8
24	26	140	99	62	6.8	59.2
26	28	152	112	70	8	72
28	30	165	120	75	8	104
30	32	178	128	80	8	115
32	34	203	152	95	8.5	153
34	36	216	160	100	8.5	176
36	38	229	176	110	8.5	176
38	40	241	184	115	10.5	292
40	42	254	192	120	10.5	320
42	45	305	240	150	10.5	364

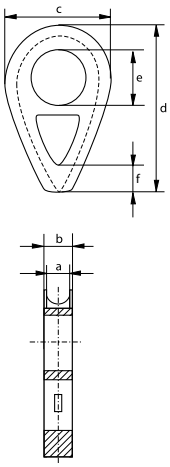
C

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 72 mm is 140 mm

diameter rope	width groove	width overall	width	length	diameter	length	weight per 100 pcs
mm	a mm	b mm	c mm	d mm	e mm	f mm	kg
8	9	15	40	56	14	-	18
10	11	17.5	50	70	18	-	32
12	13	20	60	84	21	-	52
14	16	23.5	70	98	25	-	80
16	18	26	80	130	28	16	90
18	20	28.5	90	145	31	18	121
20	22	31	100	161	35	20	161
22	24	33.5	110	177	38	22	211
24	26	36	120	193	41	24	271
26	29	39.5	130	209	44	26	355
28	31	42	140	224	47	28	420
32	35	47	160	256	53	32	630
36	40	53	180	288	59	36	884
40	44	58	200	320	65	40	1100
44	48	63	220	352	70	44	1500
48	53	69	240	384	76	48	2000
52	57	74	260	416	81	52	2500
56	62	80	280	448	86	56	3200
64	70	90	320	512	95	64	4600
72	79	101	360	576	140	72	6600

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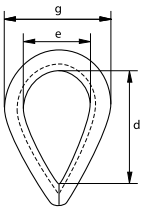
Thimbles

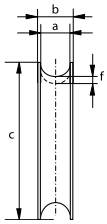
Generally to DIN 3090



- **Material:** mild steel
- **Standard:** generally to DIN 3090
- **Finish:** for diameter 4 and 6 mm electro-galvanized
  other diameters hot dipped galvanized
- **Certification:** 2.1 CE IIB

E-6135
G-6135





diameter wire rope	width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
4	5	8	35	20	10	2.1	25	1.40
6	7	10	50	30	15	2.6	33	3
8	9	13	68	40	20	4	43	7.10
10	11	15	77	50	25	5	47	17
12	13	19	100	60	30	6	63	24
14	16	22	110	70	35	8	70	31
16	18	25	125	80	40	8	80	50
18	20	27	142	90	45	9	90	62
20	22	30	155	100	50	10	102	90
22	24	33	165	110	55	10	107	100
24	26	35	180	120	60	10	120	130
26	29	36	190	130	65	12	122	220
28	31	37	197	140	70	12	128	240
32	35	43	225	160	80	15	145	216
36	40	60	250	180	90	15	170	430
40	44	66	290	200	100	20	190	570
44	48	72	315	220	110	20	205	850
48	53	77	350	240	120	20	220	1120
52	57	88	380	260	130	25	235	1530
56	62	95	405	280	140	25	270	2148
60	66	105	430	300	150	25	285	2300
64	70	110	485	320	160	30	310	3500

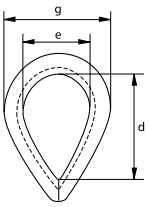
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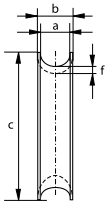
Thimbles

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 mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
3/16	5	6	9.5	47	27	18	3	32	3.50
1/4	7	7	11	51	33	20.5	3.5	36	2.80
5/16	8	8	12.7	52	33	22	4	38	5.70
3/8	10	10	14.3	64	38	25	6.3	47.6	8
7/16	11	13	17.5	73	41	29	7.9	52	14.2
1/2	13	14	20.6	79	45	32	7.9	58.8	18
9/16	14	15	20.6	88	56	38	7.9	64	18.9
5/8	16	16	22.2	96	59	41	8.7	74.5	22.4
11/16	17	19	28.6	108	67	45	9.5	79.4	39.7
3/4	19	21	28.6	124	73	51	11.1	92	45.6
7/8	22	22	31.7	131	83	56	12.7	102	61.5
15/16	24	25	33.4	146	92	64	12.7	110	106
1	25	27	35	162	108	70	14.3	119	97.3
1 1/8	29	29	38	178	112	76	15.9	133	151
1 1/4	32	33	41.3	197	133	95	15.9	152	204
1 3/8	35	38	47.6	228	152	105	19	175	318
1 1/2	38	41	52	254	165	114	23.8	197	363
1 5/8	41	47	57	280	188	120	24	205	499
1 3/4	44	51	57	286	178	127	25.4	228	556
1 7/8	48	60	66.6	317	190	133	28.6	248	-
2	51	64	69.8	330	203	140	30.1	257	-
2 1/8	54	64	69.8	330	203	140	30.1	257	-
2 1/4	57	67	76.2	356	246	160	31.7	296	-
2 1/2	64	75	93	420	255	170	43	300	-

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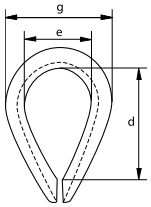
Thimbles

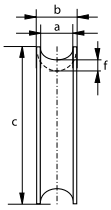
Generally to US Fed. Spec. FF-T-276b type III



- **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

G-6142





diameter rope	width groove	width overall	length	length inside	width inside	thickness back	width	weight per 100 pcs
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	7	10	56	41	22	1.5	38	2.70
8	8	12.6	64	48	27	2	46	5.10
9	10	17.2	73	54	26	2.5	54	9.10
11	12	18	83	60	32	3	60	13.9
13	13.6	21.4	92	70	38	4	70	19.9
14	15	23	92	70	38	4	68	20.5
16	16.8	24.5	103	83	44	4	78	29.8
19	19.8	31.8	127	95	51	6	97	60.8
22	24	36	140	108	57	6	108	80.4
25	27	39	156	114	63	6	125	109
28 - 32	34	46	178	130	73	6	148	147
32 - 35	36	56	228	165	89	10	173	366
35 - 38	39	63	228	158	89	12	181	478
41	42	66	285	203	101	12	206	731
45	45	69	309	228	114	12	216	778
48 - 51	54	78	380	305	152	12	250	1150
57	60	92	435	356	178	16	301	1935
64	70	110	465	360	178	20	310	2640
76	85	125	550	410	180	20	330	3850

C

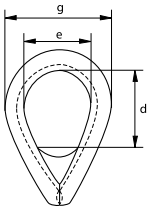
Thimbles

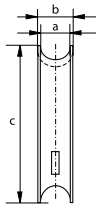
Pennant line type



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

G-6151





diameter wire rope	width groove	width overall	length	length inside	width inside	width	weight each
mm	a mm	b mm	c mm	d mm	e mm	g mm	kg
16	17	22	102	50	50	75	0.40
18	19	25	114	50	53	85	0.50
20	21	29	127	60	60	100	0.80
22	23	33	140	60	65	110	0.90
24	25	34	152	70	70	115	1
28	30	38	178	75	80	135	1.70
30	33	44	203	80	100	155	2.50
36	38	49	229	110	115	175	4
40	41	52	254	120	120	190	4.50
44	46	60	279	120	130	210	7
50	52	65	305	140	145	245	8.30
56	60	72	356	155	155	260	12.5
64	70	84	432	200	190	310	19.5
76	81	119	483	235	230	350	29
82	92	130	559	240	255	395	35
90	105	145	610	275	280	430	42
120	120	155	660	295	285	450	58

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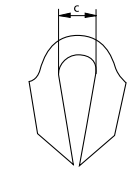
Thimbles

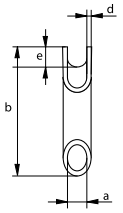
Tubular type

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



P-6190





diameter wire rope	diameter	length	width inside	thickness	height	weight each
mm	a mm	b mm	c mm	d mm	e mm	kg
10	12	90	23	4	8	0.23
12	15	105	27	5	10	0.40
14	17	115	27	5	10	0.50
16	19	120	32	5	12	0.60
18	22	140	35	5	15	0.75
22	25	180	45	6	16	1.40
24	28	180	45	7	16	1.75
26	30	195	47	7	18	2
32	35	215	60	7	22	2.50
38	45	260	70	7	27	3.50
44	50	280	75	7	28	4.20

C

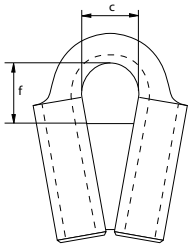
Thimbles

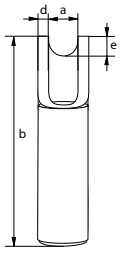
Tubular type with welded plate

- **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
mm	a mm	b mm	c mm	d mm	e mm	f mm	kg
10	12	84	23	4	8	24	0.26
12	15	95	27	5	10	31	0.42
14	17	100	27	5	10	38	0.48
16	19	112	32	5	12	46	0.61
18	22	125	35	5	15	47	0.95
22	25	150	45	6	16	61	1.33
24	28	157	45	7	16	56	1.67
26	30	170	47	7	18	68	1.96
32	35	190	60	7	22	73	2.43
36	40	212	70	9	26	80	4.32
38	45	228	70	7	27	94	3.67

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.

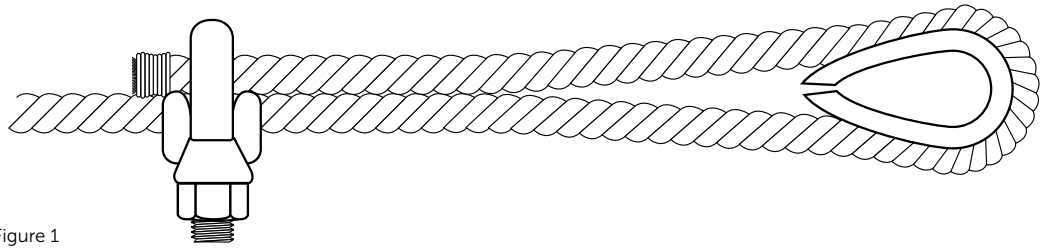


Figure 1

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.

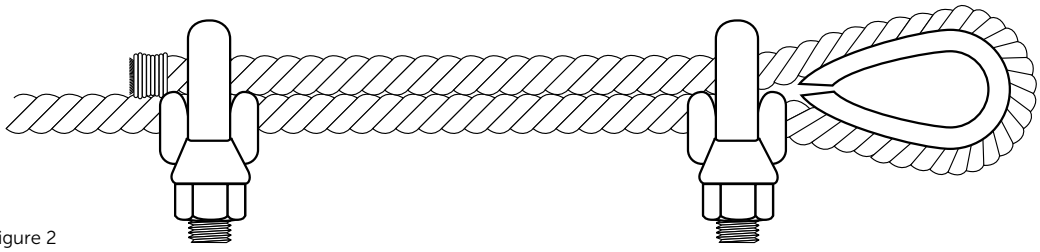


Figure 2

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.

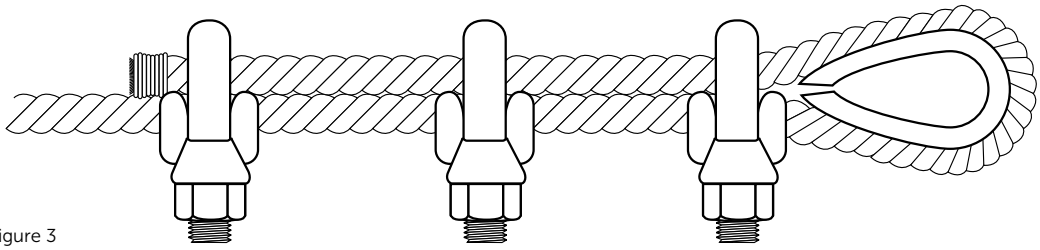


Figure 3

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	mm		mm	Nm	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
mm		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.

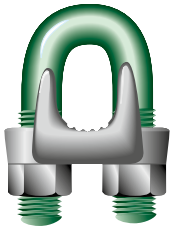
Wire rope clips should not be used in following applications:
- hoist ropes in mines;
- rope drives for cranes in steel works and rolling mills;
- permanent fastening of ropes in other rope drives;
- rope terminations for load suspension devices in the operation of lifting appliances, except in the case 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

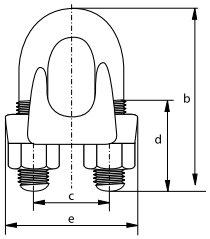
Wire rope clip generally to EN 13411-5 Type B

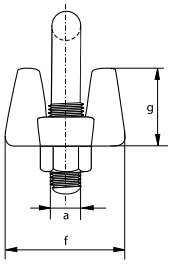
Scan for additional product details »



- **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 5, 6, 8 and 10 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
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
3 - 4	5	24	12	11	24	21	10	3
5	6	31	15	13	29	24	13	7
6 - 7	8	34	19	13	37	30	18	8.40
8	10	45	22	19	43	33	19	12.4
9 - 10	11	49	26	19	49	42	25	21
11	12	60	30	25	58	46	26	33.2
12 - 13	13	61	30	25	58	48	31	33.1
14 - 15	14	72	33	32	63	52	31	45.6
16	14	74	33	32	64	54	36	45.8
18 - 20	16	86	38	37	72	57	38	64.3
22	19	98	45	41	80	62	40	96.4
24 - 26	19	108	48	46	88	67	47	115
28 - 30	19	117	51	51	91	73	48	127
32 - 34	22	130	59	54	105	79	56	197
36	22	140	60	59	108	79	58	206
38 - 40	22	147	66	60	112	85	64	254
41 - 42	25	161	70	67	121	92	67	322
44 - 46	29	174	78	70	134	97	76	418
48 - 52	32	195	86	78	150	113	85	602
56 - 58	32	213	98	81	162	116	100	776
62 - 65	32	227	105	87	168	119	113	862
68 - 72	32	243	112	91	174	127	124	1015
75 - 78	38	271	121	98	194	135	136	1272

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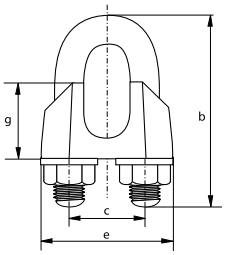
Wire Rope Clip

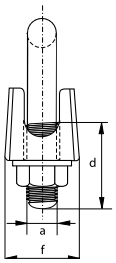
Generally to EN 13411-5 Type A



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
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
5	5	25	12	14	25	13	13	2.30
6.5	6	32	14	17	30	16	14	3.90
8	8	41	18	20	39	20	18	8.40
10	8	46	20	24	40	20	21	8.40
12	10	56	24	28	50	25	24	17
13	12	64	29	29	55	28	29	26.1
14	12	66	28	31	59	30	28	28.6
16	14	76	34	35	64	32	35	42
19	14	83	37	36	68	33	40	49
22	16	96	41	40	74	34	44	67
26	20	111	46	50	84	38	51	111
30	20	127	54	55	95	41	59	140
34	22	141	60	60	105	45	67	202
40	24	159	68	65	117	49	77	268

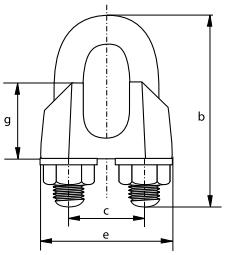
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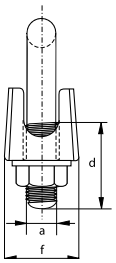
Wire Rope Clip

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
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
3	4	20	9	12	21	10	10	1
5	5	24	11	13	23	11	10	1.40
6	5	28	13	15	26	12	11	1.60
8	6	34	16	19	30	14	15	3.30
10	8	42	19	22	34	18	17	6
11	8	44	20	22	36	19	18	7
13	10	55	24	30	42	23	21	11.8
14	10	57	25	30	44	23	22	12.4
16	12	63	29	33	50	26	26	19
19	12	75	32	38	54	29	30	23.6
22	14	85	37	44	61	33	34	36.6
26	14	95	41	45	65	35	37	41
30	16	110	48	50	74	37	43	62
34	16	120	52	55	80	42	50	74.4
40	16	140	58	60	88	45	55	108
45	18	163	65	75	97	49	60	134
50	20	170	72	77	106	51	65	174

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.

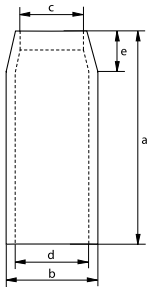
C

Prescon sleeves

For wire rope



S-6500



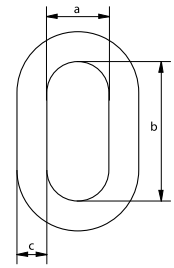
- **Material:** special carbon steel
- **Finish:** up to and including size 16 mm colour coded
  sizes above 16 mm self-coloured
- **Certification:** 2.1 CE IIB

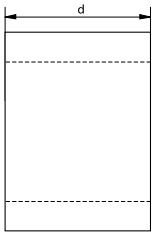
diameter wire rope	length	diameter outside	diameter inside	diameter inside	length	diameter outside pressed	weight per 100 pcs
mm	a mm	b mm	c mm	d mm	e mm	mm	kg
6	25.4	16.7	8.3	11.9	7.1	12.7	2.15
8	38.1	23	11.1	15.5	11.1	18.5	6.50
10	38.1	23	11.9	16.7	11.1	18.5	5.50
11	51	31	14.3	21.4	15.1	24.9	11.3
13	51	31	15.9	23	15.1	24.9	12.5
14	70	37	17.5	26.2	17.9	30.5	19.5
16	70	37	19.1	27.8	17.9	30.5	25.9
19	81	43.6	23.4	32.5	21.8	35.8	39.9
22	90	51.6	26.2	38.9	25.4	41.4	62
25	102	58	29.4	43.7	28.6	47.8	85
28	122	64	32.5	49.2	31.8	53	118
32	132	71	36.5	55	35.7	58	154
34 - 35	148	76	39.7	60	39.7	62	195
37 - 38	159	83	42.9	66.7	42.9	67	227
44 - 45	184	102	49.2	79	50	77	367
50 - 52	216	111	57	92	57	89	510
56 - 57	243	128	64	102	64	103	862
62 - 64	267	140	70	114	71	113	1043
68 - 70	292	146	76	121	79	118	1270
75 - 76	305	152	83	127	86	124	1334
87 - 89	356	178	98	148	100	145	2105
93 - 95	381	191	103	160	108	156	2495
100 - 102	406	206	111	173	114	180	3130
112 - 114	457	232	124	194	129	187	4536

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 mm	b mm	c mm	d mm	kg
1	1.2	2.4	0.65	5	0.10
1.5	1.7	3.4	0.75	6	0.21
2	2.2	4.4	0.85	7	0.24
2.5	2.7	5.4	1.05	9	0.50
3	3.3	6.6	1.25	11	0.84
3.5	3.8	7.6	1.5	13	1.32
4	4.4	8.8	1.7	14	2
4.5	4.9	9.8	1.9	16	2.61
5	5.5	11	2.1	18	5
6	6.6	13.2	2.5	21	5
6.5	7.2	14.4	2.7	23	7.55
7	7.8	15.6	2.9	25	9.53
8	8.8	17.6	3.3	28	15
9	9.9	19.8	3.7	32	19.8
10	10.9	21.8	4.1	35	25
11	12.1	24.2	4.5	39	35.8
12	13.2	26.4	4.9	42	45.8
13	14.2	28.4	5.4	46	59.7
14	15.3	30.6	5.8	49	73.5
16	17.5	35	6.7	56	111
18	19.6	39.2	7.6	63	159
20	21.7	43.4	8.4	70	220
22	24.3	48.6	9.2	77	280
24	26.4	52.8	10	84	376
26	28.5	57	10.9	91	481
28	31	62	11.7	98	603
30	33.1	66.2	12.5	105	735
32	35.2	70.4	13.4	112	897
34	37.8	75.6	14.2	119	1080
36	39.8	79.6	15	126	1275
38	41.9	83.8	15.8	133	1490
40	44	88	16.6	140	1734
42	46.2	92.4	17.5	147	1940
44	48.4	96.8	18.3	154	2314
46	50.6	101.2	19.2	161	2557
48	52.8	105.6	20	168	3010
50	55	110	20.8	175	3400
52	57.2	114.4	21.6	182	3813
54	59.4	118.8	22.5	189	4120
56	61.6	123.2	23.3	196	4772
58	63.8	127.6	24.2	203	5200
60	66	132	25	210	5880

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				
mm	mm	mm				
2.5	2.5	2.7	2.5	3	-	-
3	2.8	3.2	3	3.5	-	-
3.5	3.3	3.7	3.5	4	-	-
4	3.8	4.3	4	4.5	-	5
4.5	4.4	4.8	4.5	5	-	6
5	4.9	5.4	5	6	-	6.5
6	5.5	5.9	6	6.5	-	7
	6	6.4			7	
6.5	6.5	6.9	6.5	7	8	8
7	7	7.4	7	8	9	9
8	7.5	7.9	8	9	9	10
	8	8.4			10	
9	8.5	8.9	9	10	10	11
	9	9.5			11	
10	9.6	9.9	10	11	11	12
	10	10.5			12	
11	10.6	10.9	11	12	12	13
	11	11.6			13	
12	11.7	11.9	12	13	13	14
	12	12.6			14	
13	12.7	12.9	13	14	14	16
	13	13.7			16	
14	13.8	13.9	14	16	16	18
	14	14.7			18	
16	14.8	15.9	16	18	18	20
	16	16.8			20	
18	16.9	17.9	18	20	20	22
	18	18.9			22	
20	19	19.9	20	22	22	24
	20	21			24	
22	21.1	21.9	22	24	24	26
	22	23.1			26	
24	23.2	23.9	24	26	26	28
	24	25.2			28	
26	25.3	25.9	26	28	28	30
	26	27.3			30	
28	27.4	27.9	28	30	30	32
	28	29.4			32	
30	29.5	29.9	30	32	32	34
	30	31.5			34	
32	31.6	31.9	32	34	34	36
	32	33.6			36	
34	33.7	33.9	34	36	36	38
	34	35.7			38	
36	35.8	35.9	36	38	38	40
	36	37.8			40	
38	37.9	37.9	38	40	40	44
	38	39.9			44	
40	40	42	40	44	48	48
44	42.1	43.9	44	48	48	48
	44	46.2			52	52
48	46.3	47.9	48	52	52	52
	48	50.4			56	56
52	50.5	51.9	52	56	56	60
	52	54.6			60	
56	54.7	55.9	56	60	-	-
	56	58.8			-	-
60	58.9	59.9	60	-	-	-
	60	63		-	-	-

* 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 +16 °C (+60 °F). 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.

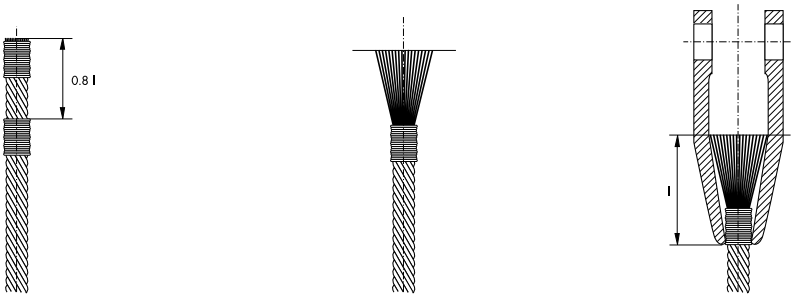


Figure 1

- 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.

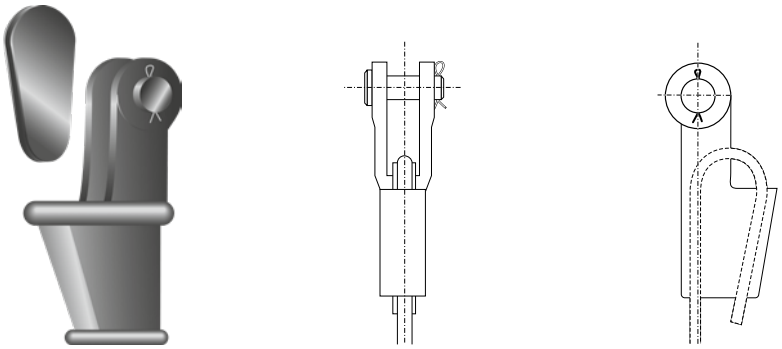


Figure 2

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 150 mm. 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.

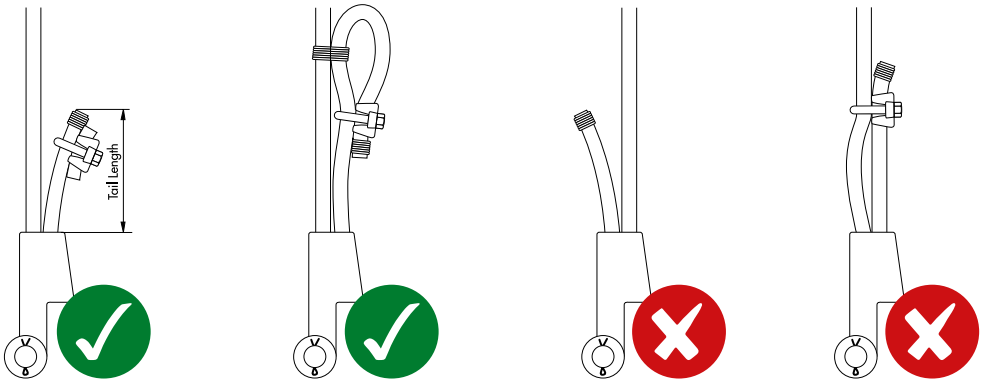


Figure 3

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.

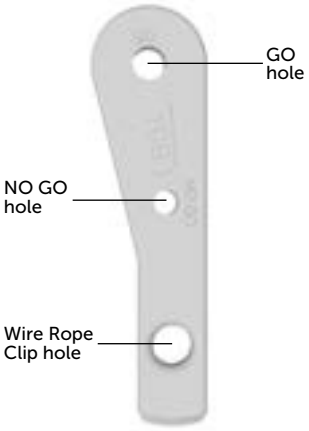


Figure 4

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 150 mm.

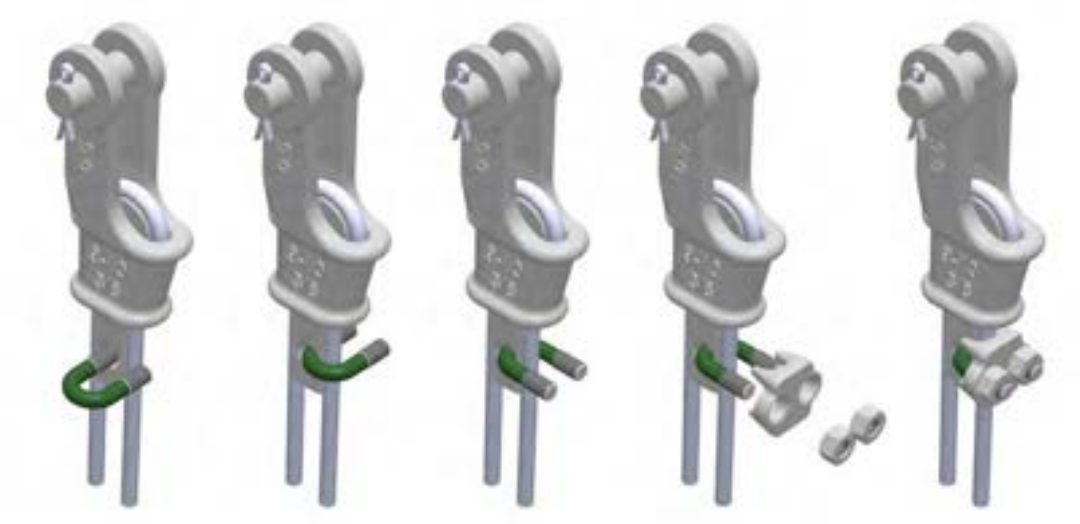


Figure 5

4) Swage sockets

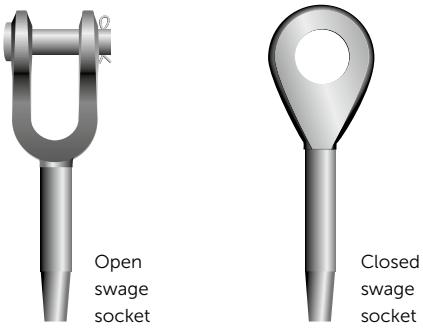


Figure 6

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.

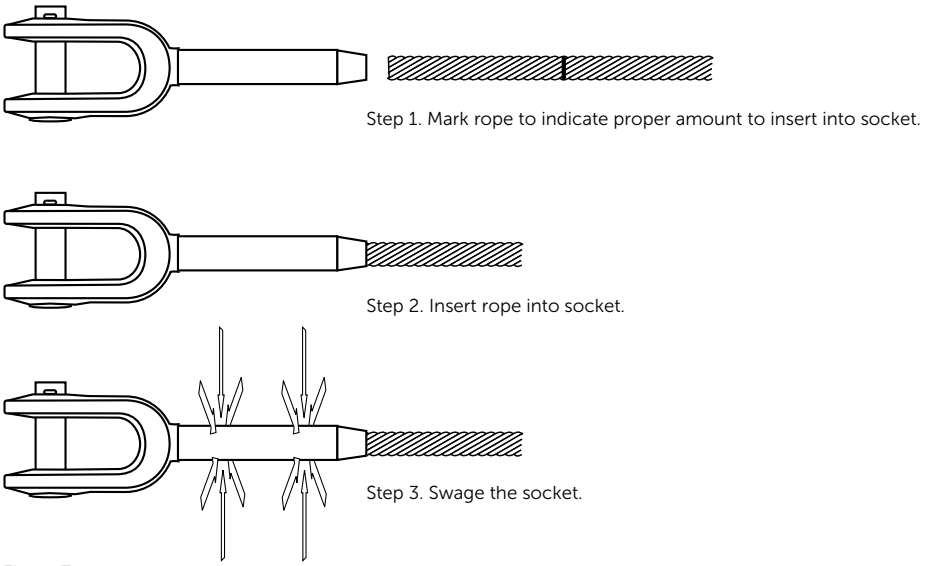


Figure 7

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

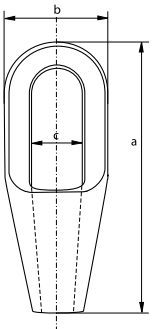
Sockets must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place 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.

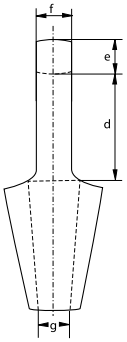
Green Pin® Closed Spelter Socket

Scan for additional product details



G-6411





- **Material:** high tensile steel, quenched and tempered
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **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
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
296	8	6 - 7	101	37	22	40	11	13	9	0.27
297	12	8 - 10	119	43	25	48	14	17.5	12	0.43
298	20	11 - 13	140	52	30	58	18	23.5	15	0.76
299	25	14 - 16	162	68	37	66	21	26	17.5	1.52
200	45	18 - 19	194	76	42	78	27	32	21.5	2.31
201	70	20 - 22	224	92	47	90	33	38	24	4.31
204	85	23 - 26	253	104	57	103	36	44	28	6.03
207	105	27 - 30	282	114	63	116	39	51	32	7.99
212	136	31 - 36	312	127	70	130	43	57	38	10.9
215	150	37 - 39	358	136	79	155	51	63	41	13.8
217	170	40 - 42	390	146	83	171	54	70	44	17.4
219	225	43 - 48	443	171	93	198	55	76	51	26.9
222	280	49 - 54	502	193	100	224	62	82	57	38.8
224	360	55 - 60	548	216	112	247	73	92	63	54.7
226	425	61 - 68	597	241	140	270	79	102	73	70.8
227	460	69 - 75	644	273	159	286	79	124	79	102
228	560	76 - 80	686	292	171	298	83	133	86	123
229	625	81 - 86	743	311	184	311	102	146	92	152
230	720	87 - 93	788	330	197	330	102	159	99	178
231	875	94 - 102	845	362	216	356	108	178	108	233
233	1200	108 - 115	1000	405	235	425	125	190	125	329
240	1300	120 - 130	1150	450	260	525	125	200	143	453

CAD

Socket Lock Socketing Resin



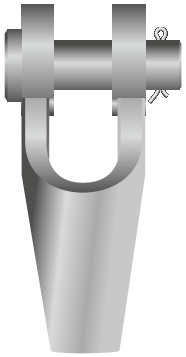
It is advised to use the Socket Lock Socketing Resin in combination with the Green Pin® Spelter Sockets. Go to **www.greenpin.com/socketlock** for more information about the Socket Lock Socketing Resin. To offer a complete assortment, Green Pin®'s parent company, Royal Van Beest, is the official distributor 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

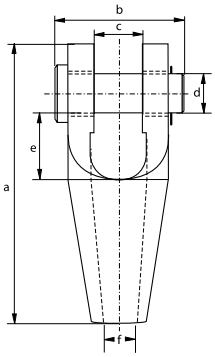
Open spelter socket with cotter pin

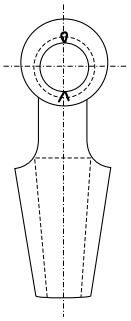
Scan for additional product details

- **Material:** high tensile steel, quenched and tempered
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **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
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	kg	kg
196	8	6 - 7	109	51	19	16	33	9	0.9	0.47
197	12	8 - 10	124	62	21	21	34	12	0.17	0.71
198	20	11 - 13	143	66	26	25	37	15	0.26	1.04
199	25	14 - 16	172	82	33	30	49	18	0.47	1.83
100	45	18 - 19	205	95	38	35	58	21	0.74	3.09
104	60	20 - 22	235	110	44	41	68	24	1.19	4.68
108	85	23 - 26	275	130	51	51	75	28	2.15	8.35
111	105	27 - 30	306	144	57	57	85	32	2.95	11.4
115	136	31 - 36	338	155	63	64	95	38	4.02	15.5
118	150	37 - 39	394	178	76	70	127	41	5.54	23.2
120	170	40 - 42	418	187	76	76	127	44	6.89	27.4
125	225	43 - 48	468	213	89	89	133	51	10.6	42.4
128	280	49 - 54	552	240	101	95	180	57	13.7	63.9
130	360	55 - 60	598	270	113	108	196	63	19.9	91.1
132	425	61 - 68	654	303	127	121	212	73	28.1	127
135	460	69 - 75	696	349	133	127	215	79	35.6	164
138	560	76 - 80	737	371	146	133	219	86	41.5	199
140	625	81 - 86	788	391	159	140	228	92	48.5	235
142	720	87 - 93	852	411	171	152	242	99	59.8	294
144	875	94 - 102	914	447	191	178	254	108	89	393
146	1200	108 - 115	1160	489	206	193	368	125	114	642

CAD

Socket Lock Socketing Resin

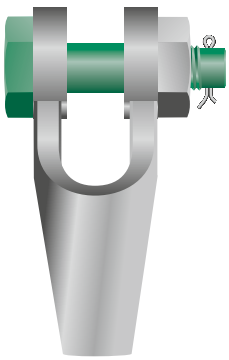


It is advised to use the Socket Lock Socketing Resin in combination with the Green Pin® Spelter Sockets. Go to **www.greenpin.com/socketlock** for more information about the Socket Lock Socketing Resin. To offer a complete assortment, Green Pin®'s parent company, Royal Van Beest, is the official distributor 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 BN

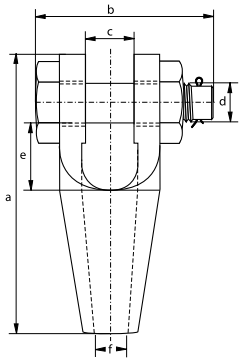
Open spelter socket with safety bolt

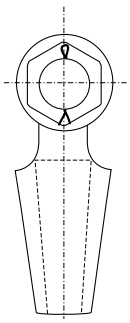
Scan for additional product details



- **Material:** high tensile steel, quenched and tempered
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **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
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	kg	kg
196	8	6 - 7	109	69	19	16	33	9	0.15	0.53
197	12	8 - 10	124	83	21	20	35	12	0.32	0.86
198	20	11 - 13	143	101	26	25	37	15	0.61	1.40
199	25	14 - 16	172	124	33	30	49	18	1.08	2.43
100	45	18 - 19	205	138	38	35	58	21	1.59	3.93
104	60	20 - 22	235	148	44	41	68	24	2.3	5.74
108	85	23 - 26	275	176	51	50	76	28	4.06	10.3
111	105	27 - 30	306	193	57	57	85	32	5.51	14.0
115	136	31 - 36	338	210	63	63	95	38	7.44	18.9
118	150	37 - 39	394	230	76	70	127	41	9.40	27.1
120	170	40 - 42	418	244	76	77	126	44	12.1	32.7

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 Wedge Socket CP

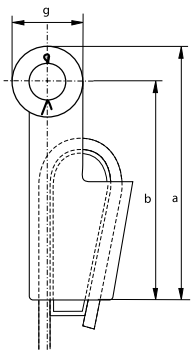
Open wedge socket with cotter pin

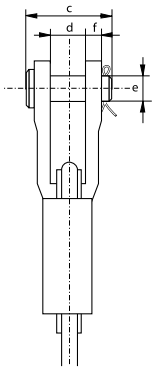
Scan for additional product details



- **Material:** high tensile steel, quenched and tempered
- **Standard:** generally to EN 13411-6
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

G-6413





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
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg	kg
0.25	8	7 - 8	128	110	51	18	16	9	36	0.09	0.83
0.5	12	9 - 10	165	142	62	20.5	21	11	46	0.17	1.58
1	20	11 - 13	175	146	66	25	25	12	57	0.26	2.50
2	25	14 - 16	211	176	82	31	30	15	70	0.47	4.42
3	40	18 - 19	252	212	95	38	35	16	80	0.74	7.76
4	55	20 - 22	288	240	110	44	41	19	95	1.19	11.3
5	75	24 - 26	329	274	130	51	51	22	110	2.16	16.5
6	90	27 - 29	375	310	144	57	57	25	130	2.95	21.8
7	110	30 - 32	423	350	155	63	64	28	146	4.02	31
8	125	34 - 36	474	400	163	69	64	28	148	4.22	39.6
9	150	37 - 39	527	450	178	76	70	30	153	5.54	49.4
10	170	40 - 42	580	500	187	76	76	33	160	6.88	68.1
11	225	43 - 48	650	550	213	89	89	39	186	10.6	94.1

CAD

Green Pin® Open Wedge Socket BN

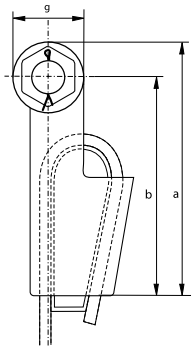
Open wedge socket with safety bolt

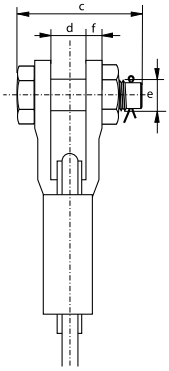
Scan for additional product details



- **Material:** high tensile steel, quenched and tempered
- **Standard:** generally to EN 13411-6
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **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
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg	kg
0.25	8	7 - 8	128	110	69	18	16	9	36	0.15	0.90
0.5	12	9 - 10	165	142	83	20.5	20	11	46	0.32	1.72
1	20	11 - 13	175	146	101	25	25	12	57	0.61	2.86
2	25	14 - 16	211	176	124	31	30	15	70	1.08	5.03
3	40	18 - 19	252	212	138	38	35	16	80	1.59	8.61
4	55	20 - 22	288	240	148	44	41	19	95	2.25	12.4
5	75	24 - 26	329	274	176	51	50	22	110	4.06	18.4
6	90	27 - 29	375	310	193	57	57	25	130	5.51	24.3
7	110	30 - 32	423	350	210	63	63	28	146	7.44	34.4
8	125	34 - 36	474	400	216	69	65	28	148	7.79	43.2
9	150	37 - 39	527	450	230	76	70	30	153	9.4	53.2
10	170	40 - 42	580	500	244	76	77	33	160	12.1	73.3

CAD

Green Pin® Open Long Wedge Socket CP

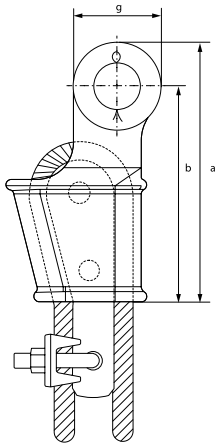
Open wedge socket with longer wedge, wire rope clip and cotter pin

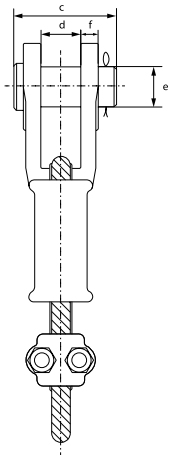
Scan for additional product details



G-6419

- **Material:** high tensile steel
- **Standard:** generally to EN 13411-6
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **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
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg	kg
0.5	12	9 - 10	165	142	62	20.5	21	11	46	0.17	1.88
1	20	11 - 13	175	146	66	25	25	12	57	0.26	3.02
2	25	14 - 16	211	176	82	31	30	15	70	0.47	5.16
3	40	18 - 19	252	212	95	38	35	16	80	0.74	8.80
4	55	20 - 22	288	240	110	44	41	19	95	1.19	12.8
5	75	24 - 26	329	274	130	51	51	22	110	2.16	18.30
6	90	27 - 29	375	310	144	57	57	25	130	2.95	23.7
7	110	30 - 32	423	350	155	63	64	28	146	4.02	33.9

CAD

Green Pin® Open Long Wedge Socket BN

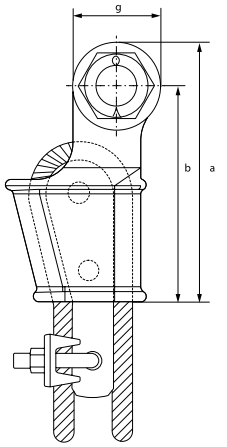
Open wedge socket with longer wedge, wire rope clip and safety bolt

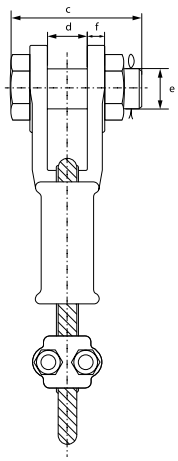
Scan for additional product details



G-6429

- **Material:** high tensile steel
- **Standard:** generally to EN 13411-6
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **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
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg	kg
0.5	12	9 - 10	165	142	83	20.5	20	11	46	0.32	2.02
1	20	11 - 13	175	146	101	25	25	12	57	0.61	3.88
2	25	14 - 16	211	176	124	31	30	15	70	1.08	5.77
3	40	18 - 19	252	212	138	38	35	16	80	1.59	9.65
4	55	20 - 22	288	240	148	44	41	19	95	2.25	13.8
5	75	24 - 26	329	274	176	51	50	22	110	4.06	20.2
6	90	27 - 29	375	310	193	57	57	25	130	5.51	26.3
7	110	30 - 32	423	350	210	63	63	28	146	7.44	37.4

CAD

Green Pin® Short Bow Socket

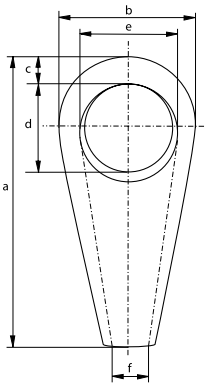
Closed spelter socket

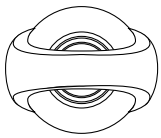
- **Material:** cast alloy steel
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes

Scan for additional product details



G-6416





minimum breaking load	rope size	length	width	thicknes bow	length eye	width eye	opening	weight each
t	mm	a mm	b mm	c mm	d mm	e mm	f mm	kg
140	31-36	262	132	38	83	75	39	7
160	37-42	305	152	40	103	92	44	10
200	43-48	356	178	48	120	112	51	16
250	49-54	390	200	54	132	120	57	21
320	55-60	440	220	62	148	135	64	28
400	61-68	498	250	68	165	150	73	44
500	69-75	540	274	75	178	164	79	68
600	76-80	585	295	76	195	175	89	70
700	81-86	625	320	82	216	194	92	81
800	87-93	670	350	92	220	202	99	112
900	94-102	700	375	100	235	215	108	112
1000	108-115	800	420	110	270	240	120	182

Green Pin® Open Swage Socket CP

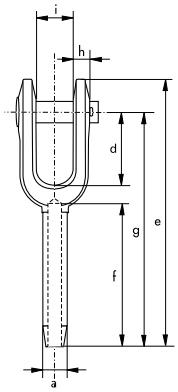
Open type swage socket with cotter pin

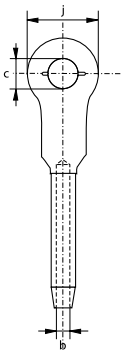
Scan for additional product details



- **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										
	a	a	a	b	c	d	e	f	g	h	i	j	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
6	13	10.9	11.7	7	17	38	121	54	102	8	17	35	0.25
8	20	17.2	18	9	21	44	159	81	135	10	21	41	0.57
10	20	17.2	18	10	21	44	159	81	135	10	21	41	0.56
11	25	22	23.1	12	25	51	198	108	169	13	25	51	1.11
13	25	22	23.1	14	25	51	198	108	169	13	25	51	1.10
14	32	28.3	29.5	15	30	57	243	135	206	16	32	63	2.11
16	32	28.3	29.5	17	30	57	243	135	206	16	32	63	2.06
19	39	34.7	36.1	20	35	70	297	162	254	19	38	76	3.68
22	43	37.8	39.4	24	41	83	346	189	295	23	44	86	5.38
25	50	44.2	45.7	27	51	95	397	216	340	26	51	102	5.45
28	57	50.5	52.1	30	57	108	444	243	381	30	57	114	12
32	64	56.9	58.4	34	64	121	494	270	419	30	63	127	16.3
35	71	63.2	65	37	64	133	540	297	460	33	63	133	20.5
38	78	69.6	71.4	40	70	146	591	324	502	37	76	146	29.5
44	86	75.9	77.7	47	89	171	689	378	584	43	89	178	42.2
51	100	88.6	90.4	54	95	203	798	432	679	46	102	203	65.8
57	113	100.3	102.1	60	108	171	835	486	705	65	114	222	93.4
63	125	110.5	112.3	67	108	171	879	498	749	65	114	222	103
76	151	133.1	134.9	80	133	219	1045	603	905	76	146	241	181

INFO

Green Pin® Closed Swage Socket

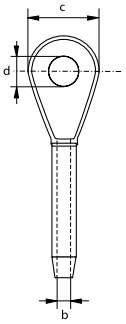
Closed type

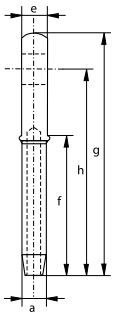
Scan for additional product details

- **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								
mm	a mm	a mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
6	13	10.9	11.7	7	37	19	13	54	111	89	0.15
8	20	17.2	18	9	43	22	17	81	140	114	0.35
10	20	17.2	18	10	43	22	17	81	140	114	0.33
11	25	22	23.1	12	51	27	22	108	176	146	0.66
13	25	22	23.1	14	51	27	22	108	176	146	0.62
14	32	28.3	29.5	15	63	32	29	135	222	184	1.35
16	32	28.3	29.5	17	63	32	29	135	222	184	1.31
19	39	34.7	36.1	20	76	37	33	162	264	219	2.30
22	43	37.8	39.4	24	89	43	38	189	308	257	3.40
25	50	44.2	45.7	27	102	52	44	216	349	292	4.97
28	57	50.5	52.1	30	114	59	51	243	387	324	7.20
32	64	56.9	58.4	34	127	65	57	270	438	365	10.5
35	71	63.2	65	37	133	65	57	297	479	400	13.3
38	78	69.6	71.4	40	140	71	63	324	518	432	17.7
44	86	75.9	77.7	47	171	91	76	378	610	508	25.3
51	100	88.6	90.4	54	197	97	83	432	698	584	41
57	113	100.3	102.1	60	219	110	102	486	756	632	55.3
63	125	110.5	112.3	67	219	110	102	498	791	667	64.4
76	151	133.1	134.9	80	235	135	137	603	959	816	114

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 »

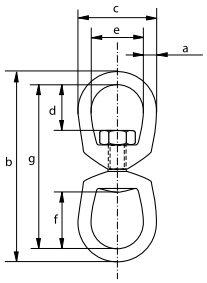
Green Pin® EE Swivel

Swivel with eye-eye end-fitting

- **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



G-7713



working load limit	diameter	length outside	width outside	length inside	width inside	length inside	length	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.4	6	87	32	18	19	27	75	0.10
0.6	8	107	41	21	25	32	91	0.18
1.12	10	131	51	24	32	38	111	0.30
1.63	13	164	64	33	38	51	138	0.60
2.4	16	198	76	40	45	61	166	1
3.3	19	221	89	45	51	67	183	1.79
4.54	22	257	102	53	57	78	213	2.55
5.7	25	298	114	59	64	86	248	4.06
8.2	32	357	143	68	80	68	293	8.48
20.5	38	541	198	110	122	110	465	25.7

CAD

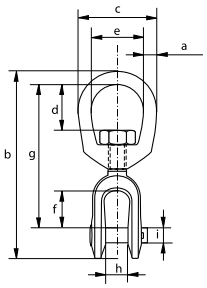
Green Pin® JE Swivel CP

Swivel with jaw-eye end-fitting and cotter pin

- **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-7723



working load limit	diameter	length	width outside	length inside	width inside	length inside	length	width inside	diameter pin	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
0.4	6	88	32	18	19	22	67	12	6	0.09
0.6	8	99	41	21	25	23	75	13	8	0.16
1.12	10	122	51	24	32	27	92	16	10	0.32
1.63	13	154	64	33	38	33	115	21	13	0.57
2.4	16	184	76	40	45	38	135	26	16	0.98
3.3	19	211	89	45	51	45	154	31	19	1.88
4.54	22	244	102	53	57	52	178	31	23	2.43
5.7	25	297	114	59	64	72	218	47	29	4.02
8.2	32	335	143	68	80	72	240	57	35	7.43
20.5	38	534	198	110	122	116	381	78	51	22.1

CAD

Scan for additional product details

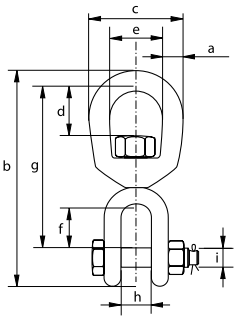
Green Pin® JE Swivel BN

Swivel with jaw-eye end-fitting and safety bolt



- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
0.6	8	99	41	21	25	23	75	13	8	0.16
1.12	10	122	51	24	32	27	92	16	10	0.32
1.63	13	154	64	33	38	33	115	21	13	0.57
2.4	16	184	76	40	45	38	135	26	16	0.98
3.3	19	211	89	45	51	45	154	31	19	1.88
4.54	22	244	102	52	57	53	178	31	22	2.43
5.7	25	297	114	59	64	72	218	47	28	4.02

CAD

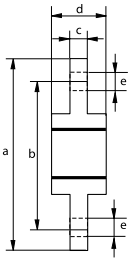
Green Pin® Thrust Bearing EE Swivel

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
t	a mm	b mm	c mm	d mm	e mm	kg
1	174	128	12.5	49	21	1.40
2	223	173	19	68	22	3.50
3	278	210	26	79	29	6.40
5	290	222	26	89	31	7.90
8	366	276	40	106	43	15.2
10	390	300	40	118	49	19.1
15	457	355	40	128	49	26.6
20	474	372	40	118	51	25
30	612	472	64	138	59	50
40	760	600	68	168	65	92

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 »

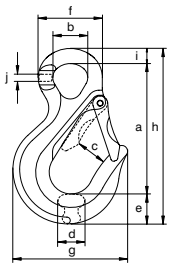
Green Pin® Sling Hook E EN 1677-2 GR8

Grade 8 eye sling hook EN 1677-2



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5/6	1.12	86	23	26	15	19	43	72	114	10	6	0.28
7/8	2	103	26	30	20	24	51	87	139	12	8	0.56
10	3.2	129	36	33	24	28	65	106	171	15	10	1.08
13	5.4	152	41	37	32	39	77	133	209	18	12	1.90
16	8.2	191	52	43	40	43	94	165	255	21	17	3.50
18/20	12.8	237	61	61	49	61	115	208	326	28	21	7.04
22	15.5	280	72	75	54	64	132	242	375	30	23	9.95
26**	21.6	251	48	73	55	86	111	236	363	32	32	14.1
32**	32.8	292	58	87	67	104	139	286	435	39	39	21.7

* Excluding sizes 26 mm and 32 mm
** Different design

INFO | CAD

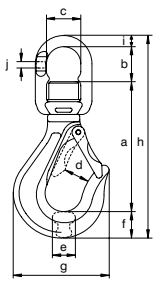
Green Pin® Sling Hook SE EN 1677-2 GR8

Grade 8 swivel sling hook EN 1677-2



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5/6	1.12	100	33	32	26	15	20	72	164	12	6	0.54
7/8	2	126	40	37	30	20	25	87	204	14	8	1
10	3.2	158	47	48	33	24	29	106	250	16	11	1.90
13	5.4	189	59	58	37	32	39	133	308	21	14	3.40
16	8.2	221	67	73	44	40	44	165	356	25	17	6.35
18/20	12.8	263	87	82	61	49	62	209	437	25	21	10.4

INFO | CAD

Green Pin® Hook E GR8

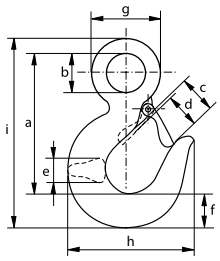
Grade 8 large eye hook with safety latch

Scan for additional product details



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** generally to EN 1677-2
- **Finish:** painted red
- **Temperature range:** -20 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
1.25	81	19	24	20	16	19	37	70	109	0.30
1.6	91	23	26	22	18	22	46	79	124	0.44
2.5	105	27	32	27	20	27	52	93	145	0.63
3.2	124	32	34	30	24	30	62	109	169	1.08
5.4	147	39	44	37	31	36	74	127	201	1.56
8.2	190	50	55	48	37	48	96	168	261	3.95
12.8	230	64	64	53	48	61	126	198	322	7.75
16	254	71	70	60	58	69	139	223	357	10.8
22	316	89	91	77	63	81	169	283	437	16.9

CAD

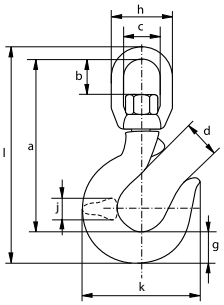
Green Pin® Hook SE GR8

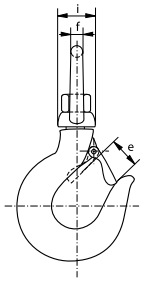
Grade 8 swivel eye hook with safety latch

Scan for additional product details



P-6703A





- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted red
- **Temperature range:** -20 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg
1.25	118	28	31	24	20	11	19	53	30	16	70	147	0.49
1.6	145	35	40	26	22	14	22	68	37	18	79	181	0.95
2.5	167	43	47	32	27	17	27	81	43	20	93	210	1.48
3.2	180	47	47	34	30	17	31	81	43	24	109	228	1.78
5.4	217	54	64	44	37	21	36	106	64	31	127	275	3.70
8.2	275	69	78	55	45	26	48	130	77	37	168	349	7.36
11.5	310	68	82	58	53	22	60	150	82	43	198	398	9.69
16	352	84	92	66	58	24	67	154	92	52	222	452	14.9
22	434	107	115	87	78	29	80	191	108	64	283	552	26
31.5	512	117	132	97	87	34	94	222	132	80	339	655	46

CAD

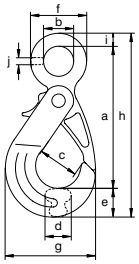
Scan for additional product details

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

Grade 8 eye self locking hook EN 1677-3



XLO



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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

for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5/6	1.12	113	24	32	16	24	47	75	148	11	6	0.51
7/8	2	136	30	43	24	28	57	91	178	14	8	0.91
10	3.2	168	36	48	32	34	68	111	218	16	10	1.79
13	5.4	201	47	63	37	43	87	141	264	20	13	3.36
16	8.2	251	60	75	43	56	111	182	332	26	16	7
18/20	12.8	283	70	90	52	62	126	203	373	28	21	9.22

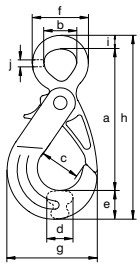
CAD INFO

Green Pin® Self Locking Hook E GR8

Grade 8 eye self locking hook



GKO



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °C up to +200 °C
- **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

for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
7/8	2	112	26	32	17	24	48	75	147	11	9	0.53
10	3.2	136	31	44	24	28	60	91	179	15	10	0.96
13	5.4	174	40	48	32	33	76	111	226	18	12	1.86
16	8.2	209	50	63	37	42	93	141	273	22	16	3.49
18/20	12.8	254	61	75	44	55	116	184	337	28	20	7.33
22	15.5	288	72	90	52	61	132	205	379	30	21	9.91

CAD INFO

Scan for additional product details »

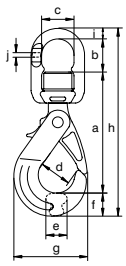
Green Pin® Self Locking Hook SE EN 1677-3 GR8

Grade 8 swivel self locking hook EN 1677-3



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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

XLE



for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5/6	1.12	123	33	32	32	16	24	75	191	12	6	0.78
7/8	2	149	41	37	43	24	28	91	232	14	8	1.39
10	3.2	186	47	48	48	32	34	112	283	16	11	2.56
13	5.4	214	60	58	63	37	44	141	337	21	14	4.56
16	8.2	273	67	73	75	43	56	182	420	25	17	9.50
18/20	12.8	304	87	82	90	52	62	205	478	25	22	12.7

CAD INFO

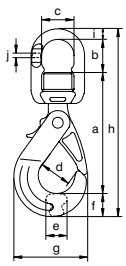
Green Pin® Self Locking Hook SE GR8

Grade 8 swivel self locking hook



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted yellow (J), red (R) or white
- **Temperature range:** -40 °C up to +200 °C
- **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

GKE



for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
7/8	2	123	33	32	32	17	24	75	191	12	6	0.77
10	3.2	149	41	37	44	24	28	91	231	14	8	1.38
13	5.4	186	47	48	48	32	33	111	282	16	11	2.56
16	8.2	214	60	58	63	37	42	141	336	21	14	4.58
18/20	12.8	272	67	73	75	45	55	184	418	25	17	9.51

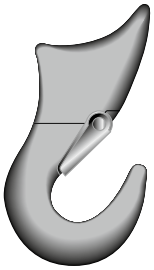
CAD INFO

Green Pin® Alloy Sliding Choker Hook

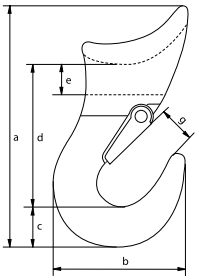
Grade 8 sliding choker hook with safety latch

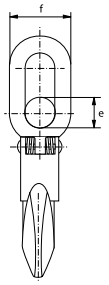
Scan for additional product details

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted red
- **Temperature range:** -20 °C up to +200 °C
- **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
t	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.8	6 - 11	112	63	19	65	14	30	16	0.40
1.6	10 - 13	143	82	26	83	17	30	18	0.76
2.5	14 - 16	170	98	30	97	19	33	24	1.28
3.2	16 - 20	196	115	36	110	22	40	27	1.91
5.4	22 - 26	260	142	46	145	36	60	35	4.20

CAD

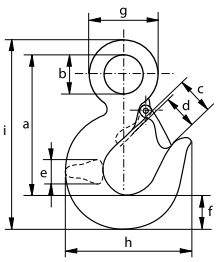
C

Eye hook

Grade 4 large eye hook with safety latch



P-6714C



- **Material:** carbon steel, grade 4
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
0.8	81	19	24	20	16	19	37	70	109	0.29
1	91	23	26	22	18	22	46	79	124	0.44
1.6	105	27	32	27	20	27	52	93	145	0.64
2	124	32	34	30	24	30	62	109	169	1.08
3.2	147	39	44	37	31	36	74	127	201	1.81
5	190	50	55	48	37	48	96	168	261	3.75

CAD

Green Pin® ID Tag

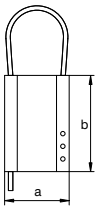
Aluminium identification tag

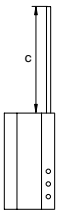
- **Material:** aluminium
- **Finish:** see table below
- **Certification:** 2.1

Scan for additional product details

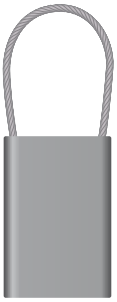


TAG





partnumber	finish	width	length	length	weight each
		a mm	b mm	c mm	kg
TAGVIERGE	self-coloured	51	76	220	0.07
TAGJ	anodized yellow	51	76	220	0.07
TAGGREEN	anodized green	51	76	220	0.07
TAGRED	anodized red	51	76	220	0.07
TAGBLUE	anodized blue	51	76	220	0.07
TAGDEMI	self-coloured	51	38	220	0.04
TAGB without wire rope	self-coloured	51	76		0.06

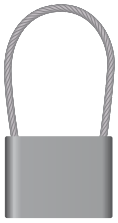

TAGVIERGE


TAGJ


TAGGREEN


TAGRED


TAGBLUE

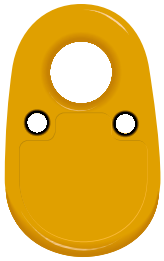

TAGDEMI

Scan for additional product details

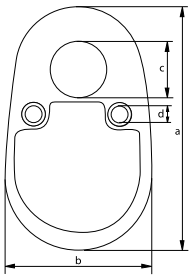
Green Pin® RFID Tag

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 °C up to +125 °C
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



TAGRFID



length	width	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
53	33	12	4	1.80

RFID INFO

Green Pin® RFID Chip

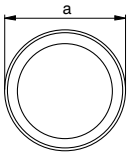
Accessory for radio-frequency identification of slings

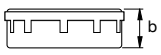
- **Material:** polymer
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Temperature range:** -40 °C up to +125 °C
- **Certification:** 2.1
- **Note:** IP68; water and ice proof





CHIPRFID





diameter	thickness	weight per 100 pcs
a mm	b mm	kg
6	2	0.02

RFID INFO

LIFTING SLING FITTINGS

FOR GRADE 8 CHAIN



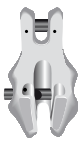
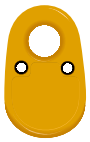
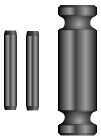
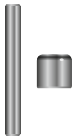
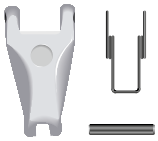
Applications

Green Pin® grade 8 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 8 lifting sling fittings for 5 mm to 32 mm 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 8
- 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 5, 7 and 9 mm 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 8 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 8 lifting sling fittings are painted. Grade 8 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 8 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 8.
- 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 8 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 8 lifting sling fittings are proof load tested at the following loads:

for chain diameter	Working Load Limit (WLL)	Proofload (PL)
mm	t	t
6	1.12	2.8
7	1.57	3.93
8	2	5
10	3.2	8
13	5.4	13.5
16	8.2	20.5
20	12.8	32
22	15.5	38.75
26	21.6	54
32	32.8	82

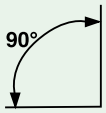
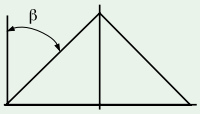
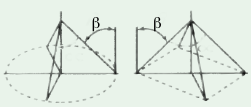
Temperature

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 -20 °C up to +200 °C cannot be used above +200 °C.

Working Load Limit table for Grade 8 Chain Slings to EN 818-4

Chain Ø						
	1 leg sling	2 leg sling		3 or 4 leg sling		Endless Sling
	90°	0°<ß ≤ 45°	45°<ß ≤ 60°	0°<ß ≤ 45°	45°<ß ≤ 60°	
		Safety factor 1.4	Safety factor 1.0	Safety factor 2.1	Safety factor 1.5	Safety factor 1.6
mm	t	t	t	t	t	t
6	1.12	1.60	1.12	2.36	1.70	1.80
7	1.50	2.12	1.50	3.15	2.24	2.50
8	2.00	2.80	2.00	4.25	3.00	3.15
10	3.15	4.25	3.15	6.70	4.75	5.00
13	5.30	7.50	5.30	11.20	8.00	8.50
16	8.00	11.20	8.00	17.00	11.80	12.50
20	12.50	17.00	12.50	26.50	19.00	20.00
22	15.00	21.20	15.00	31.50	22.40	23.60
26	21.20	30.00	21.20	45.00	31.50	33.50
32	31.50	45.00	31.50	67.00	47.50	50.00

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 angle ß, which is the angle between the sling leg and the vertical, should never exceed 60°.

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 EN 818-6:2000+A1:2008.

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 vertical are all more than 15°, 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



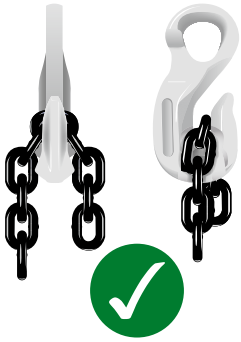
A hook cannot be used as a clamp.



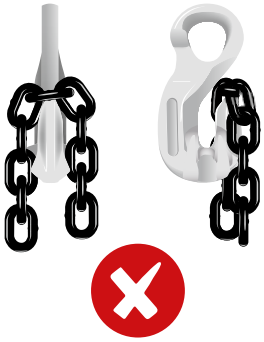
Don't use hooks without latch, as an exception is the foundry hook.



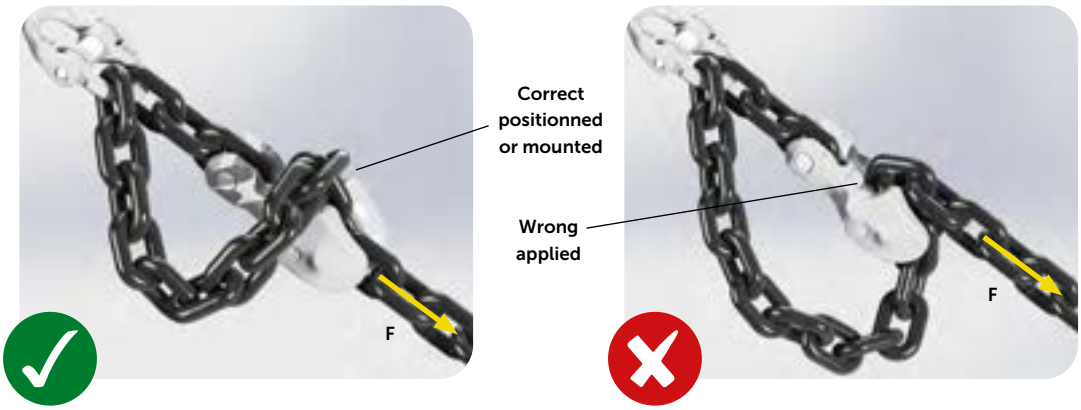
Hook body and latch may not be bent. This is a sign the hook is overloaded.



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

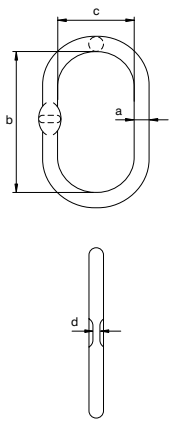
Grade 8 master link EN 1677-4

Scan for additional product details



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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		ß ≤ 45°	45° < ß ≥ 60°		b	c	d	
mm	mm	mm	mm	t	mm	mm	mm	kg
13	6/7	6	6/7	1.6	115	60	7	0.40
16	8	7/8	8	3.2	120	70	7	0.60
18	10	10	10	4.5	135	75	9	0.84
20	13	-	13	6.2	150	82	11	1.10
22	16	13	16	8.2	170	90	14	1.60
25	18	-	18	10.6	190	103	14	2.30
28	20	16	19	12.8	209	120	17	3.10
30	20/22	18	20/22	15.5	235	125	17	4
36	-	19/20	-	20	270	145	22	6.60
38	26	22	26	25	250	150	22	7.10
45	32	26	32	37	300	200	22	12.1
50	-	32	-	50	380	200	-	18
55	-	-	-	63	360	200	-	21
70	-	-	-	100	500	250	-	44
80	-	-	-	125	503	280	-	60.7

CAD INFO

* could be delivered with a yellow or red finish

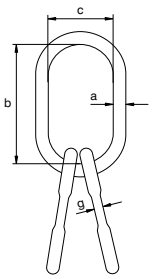
Green Pin® Master Link Assembly EN 1677-4 GR8

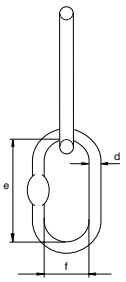
Grade 8 master link assembly EN 1677-4

Scan for additional product details



MTS





- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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	ß ≤ 45°	45° < ß ≥ 60°		b	c	d	e	f	g	
mm	mm	mm	t	mm	mm	mm	mm	mm	mm	kg
16	6	6/7	2.5	120	70	13	115	60	7	1.20
18	6/7	8	3.5	135	75	16	120	70	7	3.10
22	8	10	6.5	170	90	18	135	75	9	3.30
25	10	13	8.5	190	103	20	150	82	11	4.50
28	-	-	10	209	120	20	150	82	11	5.40
30	13	16	13	235	125	22	170	90	14	7.20
36	16	18/19	17	270	145	25	190	103	14	11.2
38	-	20	20.8	250	150	28	209	120	17	13.3
45	18/20	22	30	300	200	36	270	145	22	25.3
50	22	26	40	380	200	38	250	150	22	32.2
55	26	32	50	360	200	38	250	150	22	35.2
60	-	-	60	430	220	45	300	200	45	54.2
70	32	-	80	500	250	55	360	200	55	86
80	-	-	100	503	250	55	360	200	55	103

CAD | INFO

* could be delivered with a yellow or red finish

Scan for additional product details

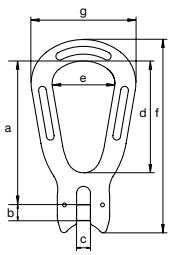
Green Pin® Pear Shaped Link EN 1677-4 GR8

Grade 8 pear shaped link EN 1677-4



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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 5, 7 and 9 mm hoist chain on request, which can be combined with respectively GPMP6, GPMP7/8, GPMP10

MP



for chain diameter	working load limit	length	diameter pin	width	length inside	width inside	length	width outside	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	1.12	84	8	7	64	33	109	55	0.14
7/8	2	101	9	9	77	40	132	69	0.35
10	3.2	125	13	12	97	50	165	84	0.76
13	5.4	161	16	15	125	66	213	110	1.61
16	8.2	198	20	19	154	84	262	140	3.05
18/20	12.8	253	24	23	198	104	331	166	4.28

CAD INFO

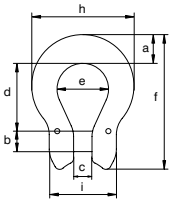
Green Pin® Omega Link EN 1677-1 GR8

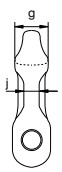
Grade 8 omega link EN 1677-1



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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 5, 7 and 9 mm hoist chain on request, which can be combined with respectively GPCO6, GPCO7/8, GPCO10

CO





for chain diameter	working load limit	width	diameter pin	width	length inside	width bow	length outside	thickness	width outside	width outside	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	1.12	14	8	7	25	20	53	13	41	28	6	0.07
7/8	2	20	9	9	34	24	71	16	55	32	9	0.20
10	3.2	19	13	12	40	31	82	17	63	42	11	0.28
13	5.4	25	16	15	51	40	106	20	84	54	14	0.64
16	8.2	32	20	19	64	48	132	25	104	68	17	1.28
18/20	12.8	38	24	23	80	59	163	30	126	82	22	2.25

CAD INFO

* could be delivered with a yellow or red finish

Scan for additional product details

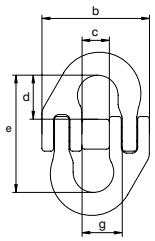
Green Pin® Connecting Link EN 1677-1 GR8

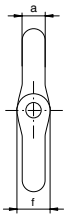
Grade 8 connecting link EN 1677-1



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	1.12	8	42	11	20	52	11	15	0.09
7/8	2	9	53	14	20	55	13	19	0.15
10	3.2	10	66	18	23	64	18	23	0.28
13	5.4	14	83	21	32	85	24	28	0.64
16	8.2	17	103	25	40	105	28	34	1.16
18/20	12.8	21	120	33	50	129	33	42	1.95
22	15.5	23	143	40	55	140	37	51	2.94
26	21.6	26	169	45	60	153	46	57	4.12
32	32.8	39	197	52	68	174	56	67	8.30

CAD INFO

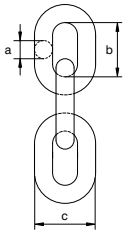
Green Pin® Lifting Chain EN818-2 GR8

Grade 8 lifting chain



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN 818-2
- **Finish:** painted black
- **Temperature range:** -40 °C up to 200 °C
- **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 meter	length per drum	weight per meter
a mm	t	b mm	c mm		m	kg
6	1.12	22	20	55.56	600	0.78
7	1.5	21	26	47.62	500	1.14
8	2	24	30	41.67	350	1.50
10	3.15	30	36	33.33	250	2.27
13	5.3	39	47	25.64	150	3.74
16	8	48	58	20.83	100	5.54
20	12.5	60	72	16.67	60	8.94
22	15	66	79	15.15	50	11.6
26	21.2	78	93	12.82	30	15.3
32	31.5	96	112	10.42	50	22.6

CAD

* could be delivered with a yellow or red finish

Scan for additional product details

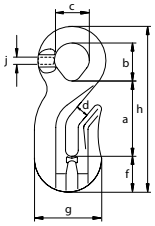
Green Pin® Grab Hook E EN 1677-1 GR8

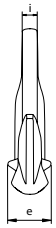
Grade 8 eye grab hook EN 1677-1



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	1.12	41	24	23	8	24	20	42	94	9	6	0.24
7/8	2	53	27	27	10	33	23	53	115	10	8	0.33
10	3.2	67	38	36	12	42	39	66	158	14	10	0.91
13	5.4	84	42	42	15	56	40	87	186	16	12	2.02
16	8.2	104	53	52	19	65	58	106	236	17	16	2.49
20	12.8	130	37	37	22	75	48	128	241	26	26	6.28
22	15.5	120	44	44	25	77	57	132	247	26	26	6.09
26***	21.6	158	46	46	30	100	82	177	320	32	32	14.7
32***	32.8	210	57	57	38	91	88	215	395	39	39	18

** Excluding sizes 20 mm, 22 mm, 26 mm and 32 mm
*** Different design

CAD

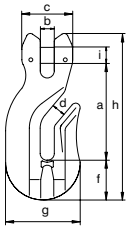
Green Pin® Grab Hook CL EN 1677-1 GR8

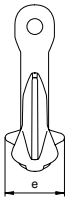
Grade 8 clevis grab hook EN 1677-1



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	1.12	52	7	28	8	24	19	42	85	8	0.23
7/8	2	64	9	33	10	33	23	53	103	9	0.45
10	3.2	89	11	42	12	42	39	66	151	13	1.05
13	5.4	103	15	54	15	56	40	78	173	16	2.05
16	8.2	120	18	67	19	65	58	106	214	20	3.03

CAD INFO

* could be delivered with a yellow or red finish

Scan for additional product details »

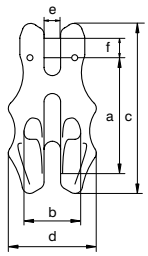
Green Pin® Shortening Clutch EN 1677-1 GR8

Grade 8 shortening clutch EN 1677-1



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

GC

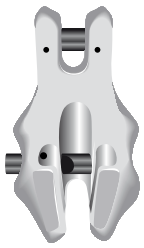


for chain diameter	working load limit	length	width inside	length	width outside	width	diameter pin	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	kg
6	1.12	52	23	75	42	7	8	0.23
7/8	2	67	30	94	50	9	9	0.44
10	3.2	83	38	116	63	11	13	0.87
13	5.4	104	49	149	79	14	16	1.76
16	8.2	127	60	184	99	18	20	3.20
18/20	12.8	154	75	215	124	22	24	5.78

CAD INFO

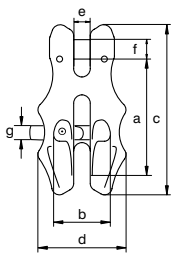
Green Pin® Shortening Clutch with Lock EN 1677-1 GR8

Grade 8 shortening clutch with locking pin EN 1677-1



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

GCV



for chain diameter	working load limit	length	width inside	length	width outside	width	diameter pin	diameter pin	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	1.12	52	23	75	42	7	8	7	0.25
8	2	67	30	94	50	9	9	8	0.45
10	3.2	83	38	116	63	11	13	12	0.87
13	5.4	104	49	149	79	14	16	16	1.74
16	8.2	127	60	184	99	18	20	20	3.10
20	12.8	154	75	215	124	22	24	20	5.72

CAD INFO

* could be delivered with a yellow or red finish

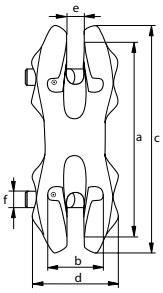
Scan for additional product details

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

Grade 8 shortening clutch with double locking pin EN 1677-1



GDV



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	kg
6	1.12	99	23	120	42	7	7	0.49
8	2	112	30	140	50	9	8	0.77
13	5.4	178	49	208	79	15	16	2.85

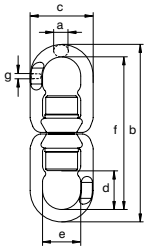
CAD | INFO

Green Pin® Needle Bearing Swivel EE GR8

Grade 8 needle bearing eye-eye swivel



ELR



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
5/6	1.12	12	149	56	33	32	126	6	0.61
7/8	2	14	181	65	40	37	153	8	1.07
10	3.2	16	226	79	48	48	195	11	1.90
13	5.4	20	268	96	60	58	227	14	3.17
16	8.2	25	329	121	67	73	279	17	6.44
18/20	12.8	25	378	132	88	82	328	22	7.75

CAD

* could be delivered with a yellow or red finish

Scan for additional product details

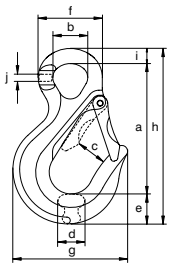
Green Pin® Sling Hook E EN 1677-2 GR8

Grade 8 eye sling hook EN 1677-2



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-2 and ASTM A952/A952M
- **Finish:** painted white
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5/6	1.12	86	23	26	15	19	43	72	114	10	6	0.28
7/8	2	103	26	30	20	24	51	87	139	12	8	0.56
10	3.2	129	36	33	24	28	65	106	171	15	10	1.09
13	5.4	152	41	37	32	39	77	133	209	18	12	1.98
16	8.2	191	52	43	40	43	94	165	255	21	17	3.55
18/20	12.8	237	61	61	49	61	115	208	326	28	21	7.10
22	15.5	280	72	75	54	64	132	242	375	30	23	9.90
26**	21.6	251	48	73	55	86	111	236	363	32	32	13.3
32**	32.8	292	58	87	67	104	139	286	435	39	39	21.6

CAD INFO

* Excluding sizes 26 mm and 32 mm
** Different design

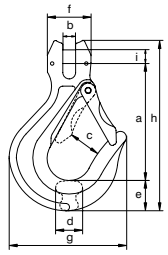
Green Pin® Sling Hook CL EN 1677-2 GR8

Grade 8 clevis sling hook EN 1677-2



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-2 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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 5, 7 and 9 mm 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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	1.12	74	7	26	15	20	28	72	108	8	0.29
7/8	2	95	9	30	20	24	32	87	136	9	0.58
10	3.2	113	12	33	24	29	42	106	164	13	1.08
13	5.4	139	15	37	32	39	54	133	208	16	2.12
16	8.2	162	19	44	40	44	68	165	240	20	3.67
18/20	12.8	199	23	61	49	62	82	208	305	24	7.32
22	15.5	239	25	75	54	65	97	242	350	28	10.7

CAD INFO

* could be delivered with a yellow or red finish

Scan for additional product details

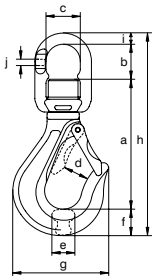
Green Pin® Sling Hook SE EN 1677-2 GR8

Grade 8 swivel sling hook EN 1677-2



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-2 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5/6	1.12	100	33	32	26	15	20	72	164	12	6	0.54
7/8	2	126	40	37	30	20	25	87	204	14	8	1
10	3.2	158	47	48	33	24	29	106	250	16	11	1.90
13	5.4	189	59	58	37	32	39	133	308	21	14	3.40
16	8.2	221	67	73	44	40	44	165	356	25	17	6.35
18/20	12.8	263	87	82	61	49	62	209	437	25	21	10.4

CAD INFO

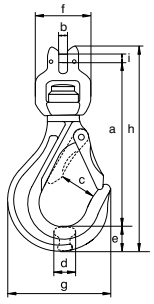
Green Pin® Sling Hook SCL EN 1677-2 GR8

Grade 8 swivel sling hook with clevis EN 1677-2



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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 5, 7 and 9 mm 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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	1.12	126	7	26	15	20	56	72	159	8	0.56
7/8	2	154	9	30	20	25	65	87	196	9	0.99
10	3.2	190	12	33	24	29	79	106	240	13	1.95
13	5.4	224	14	37	32	39	96	133	293	16	3.54
16	8.2	270	18	44	40	44	121	165	350	20	6.61

CAD INFO

* could be delivered with a yellow or red finish

Green Pin® Hook E GR8

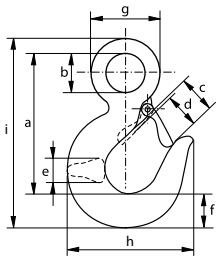
Grade 8 large eye hook with safety latch

Scan for additional product details

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** generally to EN 1677-2
- **Finish:** painted red
- **Temperature range:** -20 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes



P-6714A



working load limit	length	diameter eye inside	opening hook	opening hook	thickness	width	diameter eye outside	width outside	length outside	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
1.25	81	19	24	20	16	19	37	70	109	0.30
1.6	91	23	26	22	18	22	46	79	124	0.44
2.5	105	27	32	27	20	27	52	93	145	0.63
3.2	124	32	34	30	24	30	62	109	169	1.08
5.4	147	39	44	37	31	36	74	127	201	1.56
8.2	190	50	55	48	37	48	96	168	261	3.95
12.8	230	64	64	53	48	61	126	198	322	7.75
16	254	71	70	60	58	69	139	223	357	10.8
22	316	89	91	77	63	81	169	283	437	16.9

CAD

Green Pin® Hook SE GR8

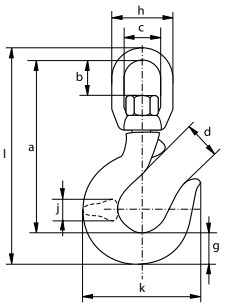
Grade 8 swivel eye hook with safety latch

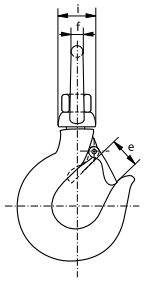
Scan for additional product details

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted red
- **Temperature range:** -20 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Article code:** scan QR code to see article codes



P-6703A





working load limit	length	length inside	width inside	opening hook	opening hook	diameter	width	width	width	thickness	width outside	lenght outside	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg
1.25	118	28	31	24	20	11	19	53	30	16	70	147	0.49
1.6	145	35	40	26	22	14	22	68	37	18	79	181	0.95
2.5	167	43	47	32	27	17	27	81	43	20	93	210	1.48
3.2	180	47	47	34	30	17	31	81	43	24	109	228	1.78
5.4	217	54	64	44	37	21	36	106	64	31	127	275	3.70
8.2	275	69	78	55	45	26	48	130	77	37	168	349	7.36
11.5	310	68	82	58	53	22	60	150	82	43	198	398	9.69
16	352	84	92	66	58	24	67	154	92	52	222	452	14.9
22	434	107	115	87	78	29	80	191	108	64	283	552	26
31.5	512	117	132	97	87	34	94	222	132	80	339	655	46

CAD

Green Pin® Pipe Line Hook

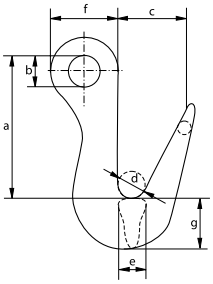
Hook for handling cylindrical objects (pipes, tubes)

Scan for additional product details »

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted red
- **Temperature range:** -20 °C up to +200 °C
- **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 t	bottom t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
2	7.5	167	35	74	30	31	73	60	2.94

CAD

Scan for additional product details

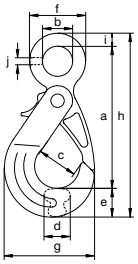
Green Pin® Self Locking Hook E EN 1677-3 GR8

Grade 8 eye self locking hook EN 1677-3



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-3 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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

XLO



for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5/6	1.12	113	24	32	16	24	47	75	148	11	6	0.51
7/8	2	136	30	43	24	28	57	91	178	14	8	0.91
10	3.2	168	36	48	32	34	68	111	218	16	10	1.79
13	5.4	201	47	63	37	43	87	141	264	20	13	3.36
16	8.2	251	60	75	43	56	111	182	332	26	16	7
18/20	12.8	283	70	90	52	62	126	203	373	28	21	9.22

CAD INFO

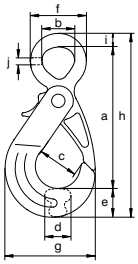
Green Pin® Self Locking Hook E GR8

Grade 8 eye self locking hook



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

GKO



for chain diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
7/8	2	112	26	32	17	24	48	75	147	11	9	0.53
10	3.2	136	31	44	24	28	60	91	179	15	10	0.96
13	5.4	174	40	48	32	33	76	111	226	18	12	1.86
16	8.2	209	50	63	37	42	93	141	273	22	16	3.49
18/20	12.8	254	61	75	44	55	116	184	337	28	20	7.33
22	15.5	288	72	90	52	61	132	205	379	30	21	9.91

CAD INFO

* could be delivered with a yellow or red finish

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

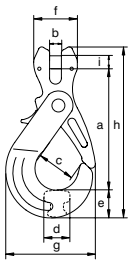
Grade 8 clevis self locking hook EN 1677-3

Scan for additional product details



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-3 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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 5, 7 and 9 mm 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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	1.12	93	7	32	17	24	28	75	130	8	0.49
7/8	2	116	9	43	24	28	32	91	161	9	0.91
10	3.2	144	12	48	32	34	42	112	201	13	1.77
13	5.4	169	15	63	37	44	54	141	242	16	3.33
16	8.2	204	18	75	43	56	68	182	296	20	6.75
18/20	12.8	234	22	90	52	62	82	205	341	24	9.57

CAD INFO

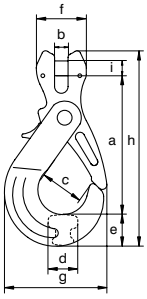
Green Pin® Self Locking Hook CL GR8

Grade 8 clevis self locking hook



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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 7 and 9 mm 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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
7/8	2	96	9	32	17	24	32	75	136	9	0.55
10	3.2	117	12	44	24	28	42	91	167	13	1.02
13	5.4	153	15	48	32	33	54	111	217	16	2.01
16	8.2	175	18	63	37	42	68	141	253	20	3.70
18/20	12.8	216	22	75	44	55	82	184	316	24	7.54
22	15.5	243	25	90	52	61	97	205	351	28	10.3

CAD INFO

* could be delivered with a yellow or red finish

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

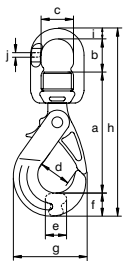
Grade 8 swivel self locking hook EN 1677-3

Scan for additional product details



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-3 and ASTM A952/A952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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

XLE



for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5/6	1.12	123	33	32	32	16	24	75	191	12	6	0.78
7/8	2	149	41	37	43	24	28	91	232	14	8	1.39
10	3.2	186	47	48	48	32	34	112	283	16	11	2.56
13	5.4	214	60	58	63	37	44	141	337	21	14	4.56
16	8.2	273	67	73	75	43	56	182	420	25	17	9.50
18/20	12.8	304	87	82	90	52	62	205	478	25	22	12.7

CAD INFO

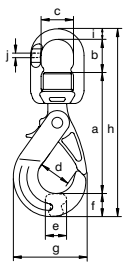
Green Pin® Self Locking Hook SE GR8

Grade 8 swivel self locking hook



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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

GKE



for chain diameter	working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
7/8	2	123	33	32	32	17	24	75	191	12	6	0.77
10	3.2	149	41	37	44	24	28	91	231	14	8	1.38
13	5.4	186	47	48	48	32	33	111	282	16	11	2.56
16	8.2	214	60	58	63	37	42	141	336	21	14	4.58
18/20	12.8	272	67	73	75	45	55	184	418	25	17	9.51

CAD INFO

* could be delivered with a yellow or red finish

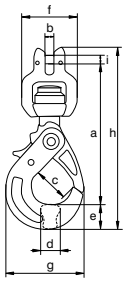
Green Pin® Self Locking Hook SCL EN 1677-3 GR8

Grade 8 swivel clevis self locking hook EN 1677-3

Scan for additional product details



XLBA



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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 5, 7 and 9 mm 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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	1.12	149	7	32	17	24	56	75	186	8	0.79
7/8	2	178	9	43	24	28	65	91	223	9	1.37
10	3.2	218	12	48	32	34	79	112	274	13	2.6
13	5.4	250	15	63	37	44	96	141	324	16	4.72
16	8.2	322	19	75	43	56	121	182	414	20	9.80

CAD INFO

Scan for additional product details

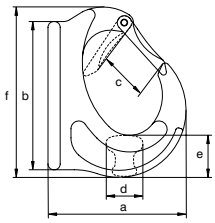
Green Pin® Excavator Hook GR8

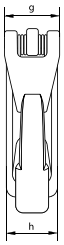
Grade 8 excavator hook



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
1	72	78	25	19	28	108	31	26	0.52
2	178	197	60	46	61	227	50	66	0.75
3	185	223	65	60	70	251	55	80	1.15
4	91	83	33	20	28	113	31	34	1.66
5	105	105	33	26	32	128	31	34	2.50
8	121	130	35	27	36	148	40	38	3.32
10	138	149	43	28	45	166	40	44	6.44
15	145	148	43	41	52	173	40	51	9.70

CAD INFO

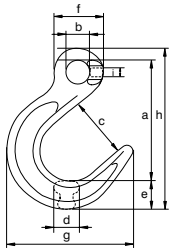
Green Pin® Foundry Hook E GR8

Grade 8 eye foundry hook



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	1.12	93	19	48	17	21	38	97	124	7	0.33
7/8	2	125	25	64	22	28	50	129	165	9	0.78
10	3.2	157	34	79	27	35	65	161	208	11	1.50
13	5.4	190	44	95	35	45	84	198	254	13	3
16**	8.2	205	35	95	45	52	88	204	284	24	4.16
18/20**	12.8	235	40	111	53	55	92	228	315	25	7.80
22**	15.5	265	46	123	66	71	110	258	268	32	9.87
26**	21.6	305	54	133	65	81	120	277	420	33	13.8
32**	32.8	327	60	155	84	96	131	333	459	35	24.5

* Excluding sizes 16 mm, 18/20 mm, 22 mm, 26 mm and 32 mm
** Different design

* could be delivered with a yellow or red finish

Scan for additional product details

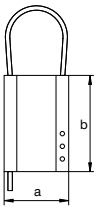
Green Pin® ID Tag

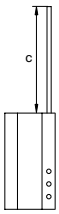
Aluminium identification tag

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



TAG

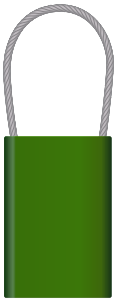




partnumber	finish	width	length	length	weight each
		a mm	b mm	c mm	kg
TAGVIERGE	self-coloured	51	76	220	0.07
TAGJ	anodized yellow	51	76	220	0.07
TAGGREEN	anodized green	51	76	220	0.07
TAGRED	anodized red	51	76	220	0.07
TAGBLUE	anodized blue	51	76	220	0.07
TAGDEMI	self-coloured	51	38	220	0.04
TAGB without wire rope	self-coloured	51	76		0.06


TAGVIERGE


TAGJ


TAGGREEN


TAGRED


TAGBLUE


TAGDEMI

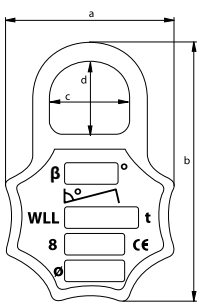
Green Pin® ID Tag for Grade 8 Slings

Forged identification tag for grade 8 slings

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



TAGF



width	length	width inside	length inside	weight each
a mm	b mm	c mm	d mm	kg
75	115	35	32	0.28

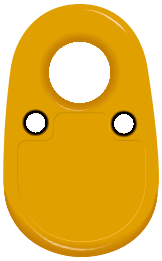
RFID

Scan for additional product details

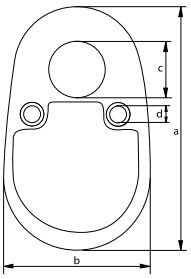
Green Pin® RFID Tag

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 °C up to +125 °C
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



TAGRFID



length	width	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
53	33	12	4	1.80

RFID INFO

Green Pin® RFID Chip

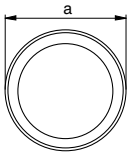
Accessory for radio-frequency identification of slings

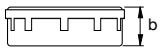
- **Material:** polymer
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Temperature range:** -40 °C up to +125 °C
- **Certification:** 2.1
- **Note:** IP68; water and ice proof





CHIPRFID





diameter	thickness	weight per 100 pcs
a mm	b mm	kg
6	2	0.02

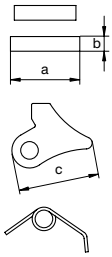
RFID INFO

Green Pin® Self Locking Hooks GR8/GR10 Spare Kit

Replacement kit for grade 8 and 10 self locking hooks



VR



- **Material:** steel
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 CE IIB
- **Note:** plastic tube included, to make assembly easier

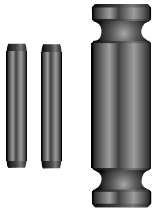
partnumber	length pin	diameter pin	width	weight each
	a mm	b mm	c mm	kg
VR1	22	6	28	0.02
VR2	26	6	31	0.03
VR3	32	8	37	0.05
VR4	40	10	47	0.10
VR5	55	10	58	0.20

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

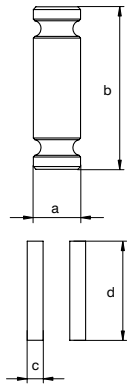
Green Pin® Clevis Fittings GR8 Spare Kit

Grade 8 spare kit for clevis fittings



- **Material:** alloy steel, grade 8, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB
- **Note:** GPAC5 is suitable for 6 mm clevis components and fits 5 mm hoist chain, GPAC7 is suitable for 8 mm clevis components and fits 7 mm hoist chain, GPAC9 is suitable for 10 mm clevis components and fits 9 mm hoist chain

AC



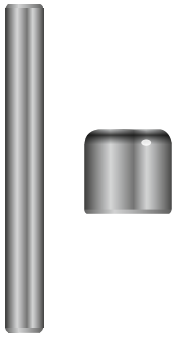
partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
GPAC5	6	28	3	14	0.01
GPAC6	8	28	3	14	0.01
GPAC7	8	32	3	22	0.02
GPAC7/8	9	32	3	22	0.02
GPAC9	10	41	4	24	0.04
GPAC10	13	41	4	24	0.04
GPAC13	16	53	4	32	0.08
GPAC16	20	66	5	35	0.16
GPAC18/20	24	80	6	45	0.28
GPAC22	28	95	8	50	0.45

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				

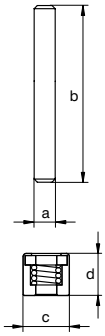
INFO

Green Pin® Connecting Link Spare Kit GR8

Grade 8 spare kit for connecting link



RMJ



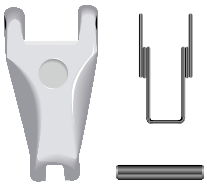
- **Material:** alloy steel, grade 8, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB

partnumber	diameter pin	length pin	diameter	width	weight each
	a mm	b mm	c mm	d mm	kg
GPRMJ6	5	41	12	10	0.01
GPRMJ7/8	6	54	13	14	0.02
GPRMJ10	8	66	16	18	0.04
GPRMJ13	10	84	22	22	0.10
GPRMJ16	12	105	25	25	0.15
GPRMJ18/20	15	122	28	32	0.25
GPRMJ22	17	141	32	35	0.38
GPRMJ26	20	169	38	40	0.54
GPRMJ32	22	199	45	50	1

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

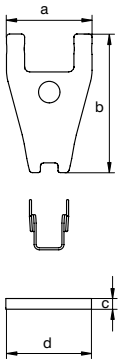
Forged latch for grade 8



- **Material:** steel
- **Finish:** painted white*, GPLF8 is self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 CE IIB

partnumber	width	length	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
GPLF0	24	44	4	24	0.03
GPLF1	31	59	5	30	0.07
GPLF2	41	65	5	40	0.11
GPLF3	41	79	6	40	0.18
GPLF4	46	81	6	45	0.22
GPLF5	50	100	8	50	0.33
GPLF6	55	119	10	55	0.55
GPLF8	60	141	8	74	0.34

LF



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					

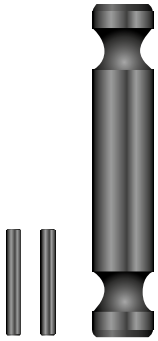
INFO

* could be delivered with a yellow or red finish

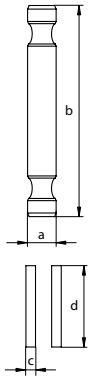
Green Pin® Clevis For Web Sling Connector GR8 Spare Kit

Grade 8 spare kit for clevis for web sling connector

- **Material:** alloy steel, grade 8, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB



RCOS



partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
GPRCOS7/8	9	58	3	22	0.03
GPRCOS10	13	74	4	24	0.08
GPRCOS13	16	94	4	32	0.15
GPRCOS16	20	116	5	35	0.25

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

LIFTING SLING FITTINGS

FOR GRADE 10 CHAIN



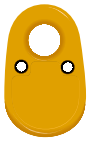
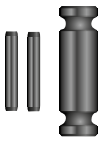
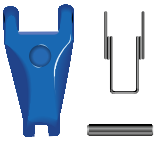
Applications

Green Pin® grade 10 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 8.

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 10 lifting sling fittings generally from 6 mm to 20 mm 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 10
- Swivel, e.g. Green Pin® Needle Bearing Swivel Eye-Eye
- Hooks, e.g. Green Pin® Sling Hook, Self Locking Hook

Design

Grade 10 lifting sling fittings has **up to 25% higher load capacity than grade 8** 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 10 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 10 lifting sling fittings are painted. Grade 10 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 10 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 10.
- 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 10 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 10 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 10 lifting sling fittings are proof load tested at the following loads:

for chain diameter	Working Load Limit (WLL)	Proofload (PL)
mm	t	t
6	1.4	3.5
7	1.95	4.88
8	2.6	6.5
10	4	10
13	6.8	17
16	10.3	25.75
20	16	40

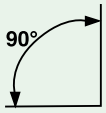
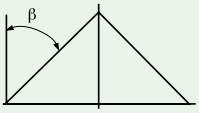
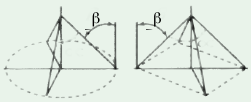
Temperature

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 10 lifting chain, designation UCHAIN temperature range is -40 °C up to +200 °C. This chain cannot be used above +200 °C.

Working Load Limit table for Grade 10 Chain Slings to EN 818-4 with values for grade 10

Chain Ø						
	1 leg sling	2 leg sling		3 or 4 leg sling		Endless Sling
	90°	0°<ß ≤ 45°	45°<ß ≤ 60°	0°<ß ≤ 45°	45°<ß ≤ 60°	
		Safety factor 1.4	Safety factor 1.0	Safety factor 2.1	Safety factor 1.5	Safety factor 1.6
mm	t	t	t	t	t	t
6	1.4	1.95	1.40	2.95	2.10	2.24
8	2.6	3.69	2.60	5.50	3.90	4.16
10	4	5.65	4.00	8.50	6.00	6.40
13	6.8	9.60	6.80	14.20	10.20	10.88
16	10.3	14.50	10.30	21.80	15.45	16.48
20	16	22.40	16.00	33.60	24.00	25.60
22	19	26.50	19.00	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 angle ß, which is the angle between the sling leg and the vertical, should never exceed 60°.

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 EN 818-6:2000+A1:2008.

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 vertical are all more than 15° 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.

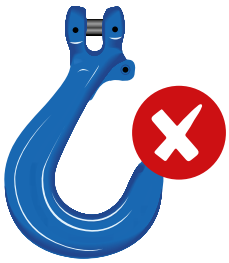
Use the below reduction table if a multi leg sling is not used for the purpose for which it has been designed, for example for a lifting operation with fewer legs than the number of legs of the sling:

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



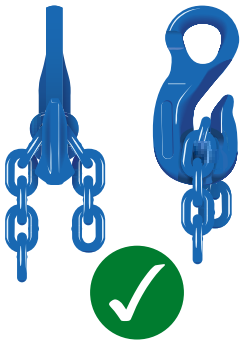
A hook cannot be used as a clamp.



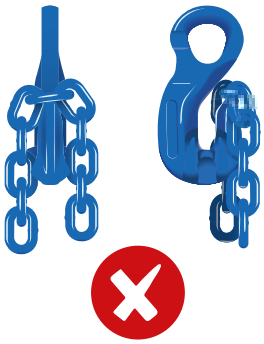
Don't use hooks without latch, as an exception is the foundry hook.



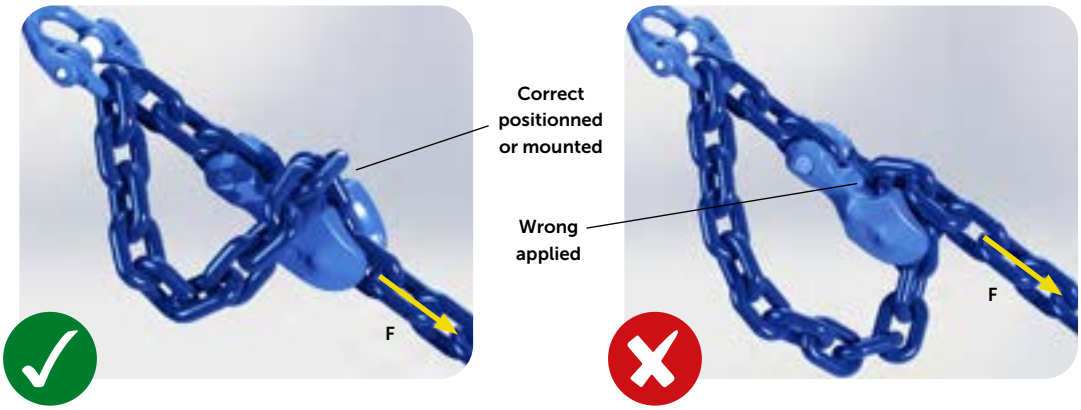
Hook body and latch may not be bent. This is a sign the hook is overloaded.



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

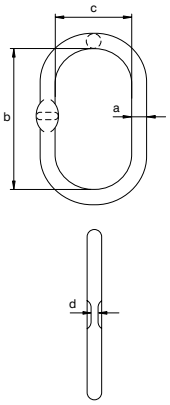
Grade 10 master link

Scan for additional product details

- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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		ß ≤ 45°	45° < ß ≤ 60°		b	c	d	
mm	mm	mm	mm	t	mm	mm	mm	kg
13	6	6	6	2	115	60	7	0.40
16	8	-	8	3.2	120	70	7	0.60
18	10	8	10	5.4	135	75	9	0.84
22	13	10	13	8.2	170	90	11	1.60
25	16	13	16	11.2	190	103	14	2.17
30	18/20	16	18/20	16	235	125	17	4
38	22	20/22	22	27.6	250	150	22	7.10

CAD

Green Pin® Master Link Assembly GR10

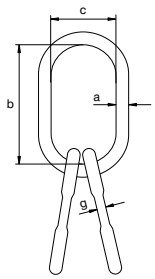
Grade 10 master link assembly

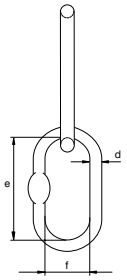
Scan for additional product details



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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	ß ≤ 45°	45° < ß ≤ 60°		b	c	d	e	f	g	
mm	mm	mm	t	mm	mm	mm	mm	mm	mm	kg
18	6	6	3.65	135	75	16	120	70	7	1.97
22	8	8/10	6.8	170	90	18	135	75	9	3.30
28	10	13	11	209	120	20	150	82	11	5.40
36	13	16	17.7	270	145	25	190	103	14	11.2
38	16	18/19	21.2	250	150	30	235	125	17	15.1
50	20	22	41.6	380	200	38	250	150	22	32.2

CAD

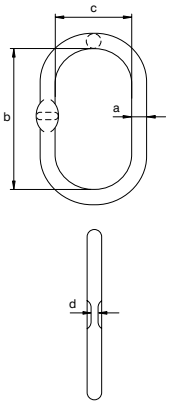
Green Pin® Wider Master Link GR10

Grade 10 wider master link

Scan for additional product details



UMSW



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	kg
4.1	17	160	90	9	0.85
6.7	19	160	90	9	1.08
11.5	25	210	115	13	2.43
17	33	270	140	17	5.40
27.7	38	275	150	21	7.50
45	50	380	200	50	17.7
64	56	400	200	56	23.5

CAD

Green Pin® Wider Master Link Assembly GR10

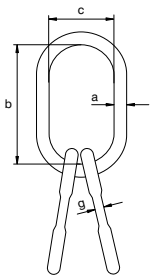
Grade 10 wider master link assembly

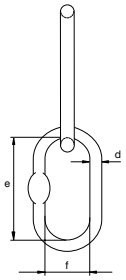
Scan for additional product details

- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
4.3	19	160	90	14	120	70	9	1.96
6.7	23	180	100	17	160	90	9	3.50
28.1	40	300	160	33	270	140	17	19.8
38.3	45	340	180	38	275	150	21	27.8
75	60	400	200	50	380	200	50	62.5

CAD

Scan for additional product details

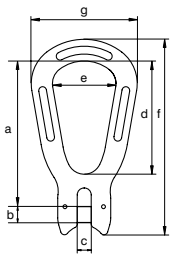
Green Pin® Pear Shaped Link GR10

Grade 10 pear shaped link



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	1.4	84	8	7	64	33	109	55	0.14
7	1.95	100	10	9	77	40	132	69	0.28
8	2.6	100	10	9	77	40	132	69	0.28
10	4	125	13	12	97	50	165	84	0.63
13	6.8	161	16	15	125	66	213	110	1.40
16	10.3	198	20	19	154	84	262	140	2.73

CAD INFO

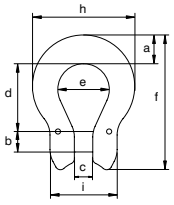
Green Pin® Omega Link GR10

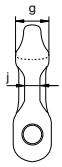
Grade 10 omega link



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UCO





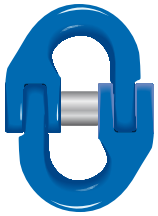
for chain diameter	working load limit	width	diameter pin	width	length inside	width bow	length outside	thickness	width outside	width outside	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	1.4	14	8	7	25	20	53	13	41	28	6	0.07
7	1.95	21	10	9	34	24	72	16	58	32	9	0.18
8	2.6	21	10	9	34	24	72	16	58	32	9	0.18
10	4	21	13	12	40	31	84	19	67	42	11	0.28
13	6.8	28	16	15	51	40	109	23	90	54	14	0.64
16	10.3	35	20	19	64	48	135	27	110	68	17	1.21

CAD INFO

Scan for additional product details »

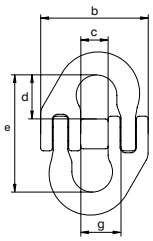
Green Pin® Connecting Link GR10

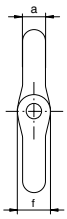
Grade 10 connecting link



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	1.4	8	42	11	20	52	11	15	0.09
7	1.95	9	53	14	20	55	16	19	0.18
8	2.6	9	53	14	20	55	16	19	0.18
10	4	12	66	18	23	64	18	23	0.31
13	6.8	16	83	21	32	85	24	28	0.68
16	10.3	19	105	25	40	105	28	34	1.27
20	16	23	122	33	49	128	38	42	2.27

CAD INFO

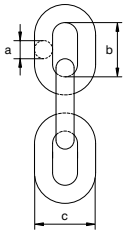
Green Pin® Lifting Chain GR10

Grade 10 lifting chain



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN818-2 with grade 10 values
- **Finish:** painted blue
- **Temperature range:** -40 °C up to 200 °C
- **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 meter	length per drum	weight per meter
a mm	t	b mm	c mm		m	kg
6	1.4	18	22	55.56	200	0.80
8	2.6	24	30	41.67	200	1.50
10	4	30	36	33.33	200	2.30
13	6.8	39	48	25.64	100	3.90
16	10.3	48	58	20.83	100	5.80
20	16	60	72	16.67	50	8.90

CAD

Scan for additional product details

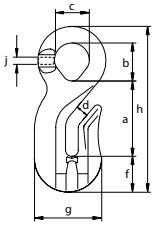
Green Pin® Grab Hook E GR10

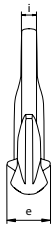
Grade 10 eye grab hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	1.4	41	24	23	8	24	20	42	94	9	6	0.24
7/8	2.6	53	27	27	10	37	28	53	120	10	8	0.51
10	4	67	38	36	12	42	39	66	158	14	10	1.08
13	6.8	84	42	42	15	56	40	87	186	16	12	2
16	10.3	104	53	52	19	65	58	106	236	17	16	2.49

CAD

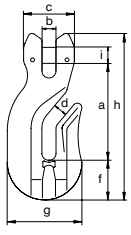
Green Pin® Grab Hook CL GR10

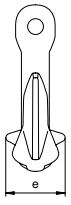
Grade 10 clevis grab hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	1.4	52	7	28	8	24	25	42	91	8	0.35
7	1.95	64	9	32	10	37	28	53	108	10	0.35
8	2.6	64	9	32	10	37	28	53	108	10	0.35
10	4	89	11	42	12	42	39	66	151	13	1.06
13	6.8	103	15	54	15	56	40	87	173	16	1.70
16	10.3	120	18	67	19	65	58	106	214	20	3.76

CAD INFO

Scan for additional product details

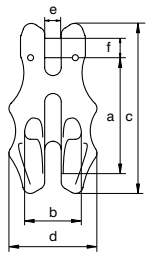
Green Pin® Shortening Clutch GR10

Grade 10 shorting clutch with locking pin



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UGC



for chain diameter	working load limit	length	width inside	length	width outside	width	diameter pin	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	kg
6	1.4	52	23	75	42	7	8	0.23
7	1.95	67	30	94	50	9	10	0.45
8	2.6	67	30	94	50	9	10	0.45
10	4	83	38	116	63	11	13	0.90
13	6.8	104	49	149	79	14	16	1.78
16	10.3	127	60	184	99	18	20	3.20
20	16	154	75	215	124	22	24	5.78

CAD INFO

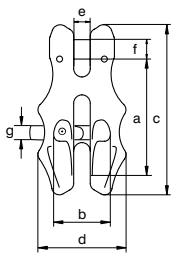
Green Pin® Shortening Clutch with Lock GR10

Grade 10 shortening clutch with locking pin



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 and DIN5692 with grade 10 values and ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UGCV



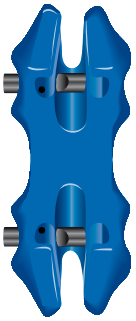
for chain diameter	working load limit	length	width inside	length	width outside	width	diameter pin	diameter pin	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	1.4	52	23	75	42	7	8	7	0.23
8	2.6	67	30	94	50	9	10	8	0.44
10	4	83	38	116	63	11	13	12	0.87
13	6.8	104	49	149	79	14	16	16	1.67
16	10.3	127	60	184	99	18	20	20	3.10
20	16	154	75	215	124	22	24	20	5.80

CAD INFO

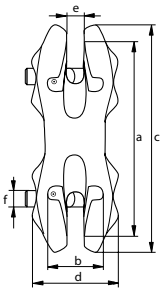
Green Pin® Shortening Clutch with Double Lock GR10

Scan for additional product details

Grade 10 shortening clutch with double locking pin



UGDV



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	kg
6	1.4	100	23	120	42	7	7	0.49
8	2.6	112	30	140	50	9	8	0.77
13	6.8	180	49	208	79	15	16	2.85

CAD INFO

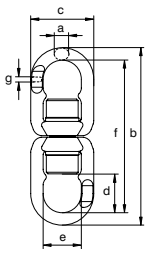
Green Pin® Needle Bearing Swivel EE GR10

Grade 10 needle bearing eye-eye swivel

Scan for additional product details



UELR



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	1.4	12	149	56	33	32	126	6	0.61
7/8	2.6	14	181	65	40	37	153	8	1.07
10	4	16	226	79	48	48	195	11	1.90
13	6.8	20	268	96	60	58	227	14	3.17
16	10.3	25	329	121	67	73	279	17	6.44
20	16	25	378	132	88	82	328	22	7.75

CAD

Scan for additional product details

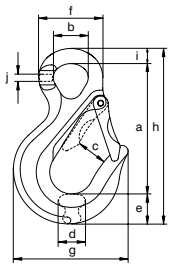
Green Pin® Sling Hook E GR10

Grade 10 eye sling hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	1.4	86	23	26	15	19	43	73	114	10	6	0.28
7/8	2.6	103	26	30	19	24	51	87	139	12	8	0.52
10	4	129	36	33	24	28	65	106	171	15	10	1.09
13	6.8	152	41	37	32	39	77	133	209	18	12	1.94
16	10.3	191	52	43	40	43	94	165	255	21	17	3.51
20	16	237	61	61	49	61	115	208	326	28	21	7.08

CAD INFO

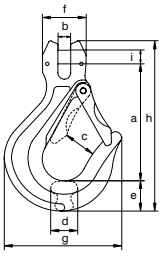
Green Pin® Sling Hook CL GR10

Grade 10 clevis sling hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] DGUV CE IIB
- **Article code:** scan QR code to see article codes

UCSC



for chain diameter	working load limit	length	width	width opening	thickness	width	width outside	width outside	length outside	diameter pin	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	1.4	74	7	26	15	20	28	72	108	8	0.29
7	1.95	95	9	30	20	24	32	87	136	9	0.58
8	2.6	95	9	30	20	24	32	87	136	9	0.58
10	4	113	11	33	24	29	42	106	164	13	1.11
13	6.8	139	15	37	32	39	54	133	208	16	2.12
16	10.3	162	18	44	40	44	68	165	240	20	3.78
20	16	199	23	61	49	62	82	208	305	24	7.49

CAD INFO

Scan for additional product details

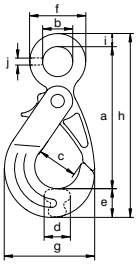
Green Pin® Self Locking Hook E GR10

Grade 10 eye self locking hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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 diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	1.4	113	24	32	16	24	47	75	148	11	6	0.51
7/8	2.6	136	30	43	24	28	57	91	178	14	8	0.91
10	4	168	36	48	32	34	68	110	218	16	10	1.79
13	6.8	201	47	63	37	43	87	141	264	20	13	3.36
16	10.3	251	60	75	43	56	111	182	332	26	16	7
20	16	283	70	90	52	62	126	203	373	28	21	9.22

CAD INFO

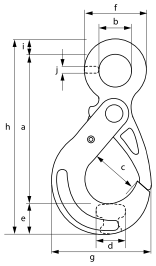
Green Pin® Self Locking Hook E RT GR10

Grade 10 eye self locking hook with recessed trigger



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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 diameter	working load limit	length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
7/8	2.6	136	30	43	24	28	57	91	178	14	7	0.90
10	4	168	36	48	32	34	68	111	218	16	10	1.77
13	6.8	201	47	63	37	43	87	141	264	20	13	3.34
16	10.3	251	60	75	43	56	111	182	332	26	16	6.98
20	16	283	70	90	52	62	126	203	373	28	20	9.20

CAD INFO

Scan for additional product details

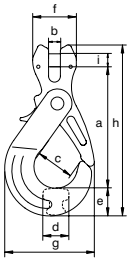
Green Pin® Self Locking Hook CL GR10

Grade 10 clevis self locking hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	1.4	93	7	32	17	24	28	75	130	8	0.49
7	1.95	116	9	43	24	28	32	91	161	10	0.91
8	2.6	116	9	43	24	28	32	91	161	10	0.91
10	4	144	11	48	32	34	42	112	201	13	1.74
13	6.8	169	15	63	37	44	54	141	242	16	3.33
16	10.3	204	18	75	43	56	68	182	296	20	6.75
20	16	234	22	90	52	62	82	205	341	24	9.57

CAD INFO

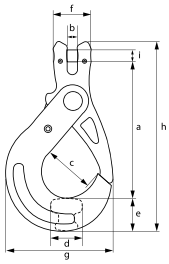
Green Pin® Self Locking Hook CL RT GR10

Grade 10 clevis self locking hook with recessed trigger



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
7	1.95	116	9	43	24	28	32	91	161	10	0.90
8	2.6	116	9	43	24	28	32	91	161	10	0.90
10	4	144	12	48	32	34	42	112	201	13	1.72
13	6.8	169	15	63	37	44	54	141	242	16	3.31
16	10.3	204	19	75	43	56	68	182	296	20	6.73
20	16	234	23	90	52	62	82	205	341	24	9.55

CAD INFO

Green Pin® Self Locking Hook SE GR10

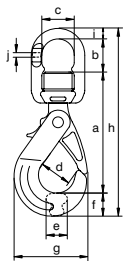
Grade 10 swivel self locking hook

Scan for additional product details



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	1.4	123	33	32	32	17	24	75	191	12	6	0.78
7/8	2.6	149	41	37	43	24	28	91	232	14	8	1.39
10	4	186	47	48	48	32	34	112	283	16	11	2.56
13	6.8	214	60	58	63	37	44	141	337	21	14	4.56
16	10.3	273	67	73	75	43	56	182	420	25	17	9.50
20	16	304	87	82	90	52	62	205	478	25	22	12.4

CAD INFO

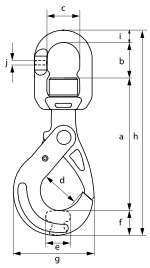
Green Pin® Self Locking Hook SE RT GR10

Grade 10 swivel self locking hook with recessed trigger



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
7/8	2.6	149	41	37	43	24	28	91	232	14	8	1.38
10	4	186	47	48	48	32	34	112	283	16	11	2.54
13	6.8	214	60	58	63	37	44	141	337	21	14	4.54
16	10.3	273	67	73	75	43	56	182	420	25	17	9.48
20	16	304	87	82	90	52	62	205	478	25	21	12.4

CAD INFO

Green Pin® Foundry Hook E GR10

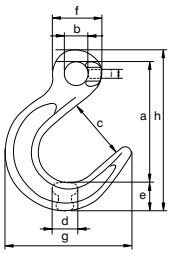
Grade 10 eye foundry hook

Scan for additional product details



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	1.4	93	19	48	17	21	38	97	124	7	0.33
7/8	2.6	125	25	64	22	28	50	129	165	9	0.78
10	4	157	34	79	28	35	65	161	208	11	1.50
13	6.8	190	44	95	35	45	84	198	255	13	3

Scan for additional product details

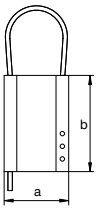
Green Pin® ID Tag

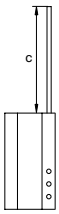
Aluminium identification tag

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

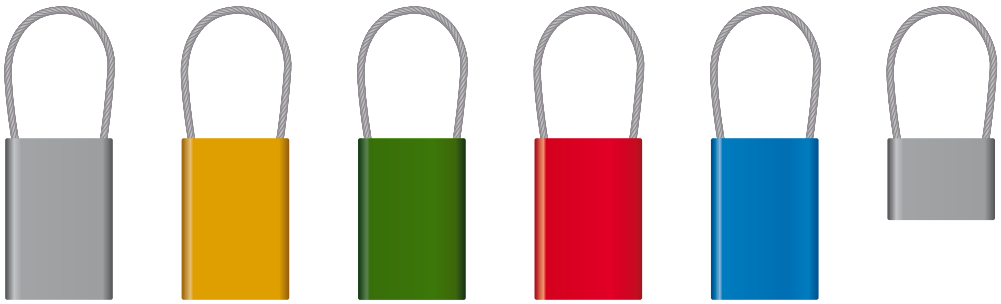


TAG





partnumber	finish	width	length	length	weight each
		a mm	b mm	c mm	kg
TAGVIERGE	self-coloured	51	76	220	0.07
TAGJ	anodized yellow	51	76	220	0.07
TAGGREEN	anodized green	51	76	220	0.07
TAGRED	anodized red	51	76	220	0.07
TAGBLUE	anodized blue	51	76	220	0.07
TAGDEMI	self-coloured	51	38	220	0.04
TAGB without wire rope	self-coloured	51	76		0.06



TAGVIERGE TAGJ TAGGREEN TAGRED TAGBLUE TAGDEMI

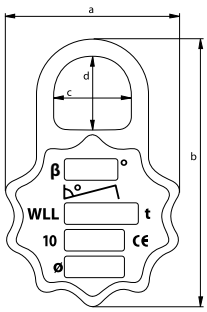
Green Pin® ID Tag for Grade 10 Slings

Forged identification tag for grade 10 slings

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



UTAGF



width	length	width inside	length inside	weight each
a mm	b mm	c mm	d mm	kg
79	121	35	32	0.30

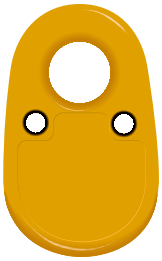
RFID

Scan for additional product details

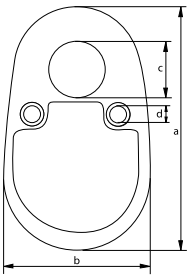
Green Pin® RFID Tag

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 °C up to +125 °C
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



TAGRFID



length	width	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
53	33	12	4	1.80

RFID INFO

Green Pin® RFID Chip

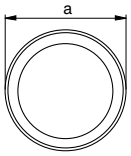
Accessory for radio-frequency identification of slings

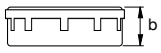
- **Material:** polymer
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Temperature range:** -40 °C up to +125 °C
- **Certification:** 2.1
- **Note:** IP68; water and ice proof





CHIPRFID





diameter	thickness	weight per 100 pcs
a mm	b mm	kg
6	2	0.02

RFID INFO

Green Pin® Self Locking Hooks GR8/GR10 Spare Kit

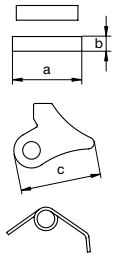
Replacement kit for grade 8 and 10 self locking hooks

- **Material:** steel
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 CE IIB
- **Note:** plastic tube included, to make assembly easier



VR

partnumber	length pin	diameter pin	width	weight each
	a mm	b mm	c mm	kg
VR1	22	6	28	0.02
VR2	26	6	31	0.03
VR3	32	8	37	0.05
VR4	40	10	47	0.10
VR5	55	10	58	0.20



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

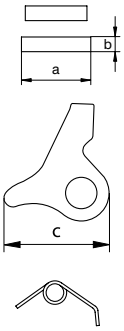
Replacement kit for grade 8 and 10 self locking hooks with recessed trigger

- **Material:** steel
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 CE IIB
- **Note:** plastic tube included, to make assembly easier



VRRT

partnumber	length pin	diameter pin	width	weight each
	a mm	b mm	c mm	kg
GPVR2RT	26	6	31	0.03
GPVR3RT	32	8	37	0.05
GPVR4RT	40	10	47	0.10
GPVR5RT	55	10	58	0.20

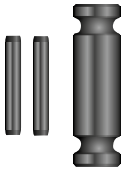


partnumber	for fitting		
	UXLORT	UXLCRT	UXLERT
GPVR2RT	GPUXLO1RT	GPUXLC1RT	GPUXLE1RT
GPVR3RT	GPUXLO2RT	GPUXLC2RT	GPUXLE2RT
GPVR4RT	GPUXLO3RT	GPUXLC3RT	GPUXLE3RT
GPVR5RT	GPUXLO4RT	GPUXLC4RT	GPUXLE4RT
	GPUXLO5RT	GPUXLC5RT	GPUXLE5RT

INFO

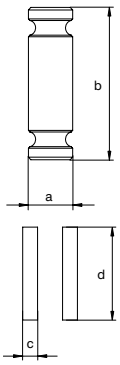
Green Pin® Clevis Fittings GR10 Spare Kit

Grade 10 spare kit for clevis fittings



- **Material:** alloy steel, grade 10, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB

UAC

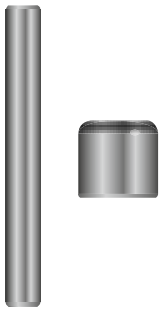


partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
GPUAC6	8	28	3	14	0.01
GPUAC7	10	32	3	22	0.02
GPUAC8	10	32	3	22	0.02
GPUAC10	13	41	4	24	0.04
GPUAC13	16	53	4	30	0.08
GPUAC16	20	66	5	35	0.16
GPUAC20	24	80	6	45	0.28

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

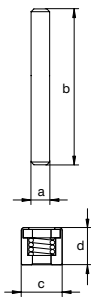
Green Pin® Connecting Link Spare Kit GR10

Grade 10 spare kit for connecting link



- **Material:** alloy steel, grade 10, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB

URMJ

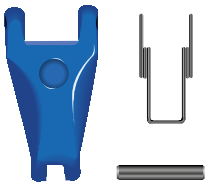


partnumber	diameter pin	length pin	diameter	width	weight each
	a mm	b mm	c mm	d mm	kg
GPURMJ6	5	41	12	10	0.01
GPURMJ8	6	54	13	14	0.02
GPURMJ10	8	66	16	18	0.02
GPURMJ13	10	84	22	22	0.05
GPURMJ16	12	105	25	25	0.10
GPURMJ20	15	122	28	32	0.15

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

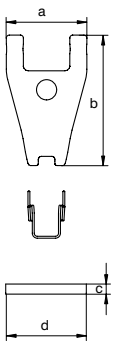
Green Pin® Latch GR10

Forged latch for grade 10



- **Material:** steel
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 CE IIB

ULF



partnumber	width	length	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
GPULF0	24	44	4	24	0.03
GPULF1	31	59	5	30	0.07
GPULF2	41	65	5	40	0.11
GPULF3	41	79	6	40	0.18
GPULF4	46	81	6	45	0.20
GPULF5	50	100	8	50	0.40

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



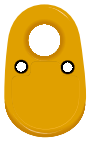
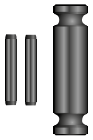
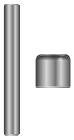
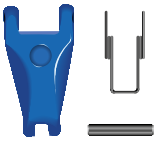
Applications

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				

Table continues on next page

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 10 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 10 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 10 Green Pin Tycan® lifting sling fittings are painted. Grade 10 Green Pin Tycan® lifting fittings are painted blue. The same colour as our other Grade 10 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 10 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 10.
- 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 10 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 10 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 10 Green Pin Tycan® lifting sling fittings are proof load tested at the following loads:

for link size	Working Load Limit (WLL)	Proofload* (PL)
mm	t	t
11x15	2.6	6.5
11x20	4	10
15x25	5	12.5
13x30	6.8	17
15x40	10.3	25.75

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

Temperature

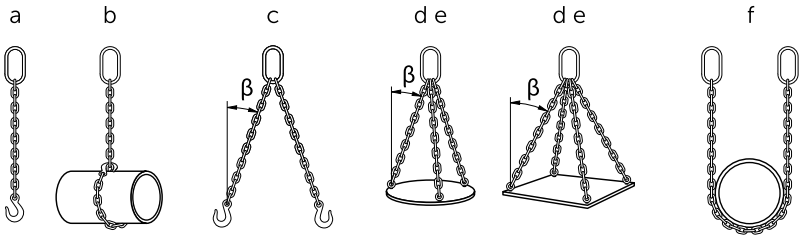
The Green Pin Tycan® lifting fibre chain temperature range is -40 °C up to +70 °C. This chain cannot be used above +70 °C.

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 t WLL (1 leg sling)	4 t WLL (1 leg sling)	5 t WLL (1 leg sling)	6.8 t WLL (1 leg sling)	10.3 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 to EN 818-4 with values for grade 10

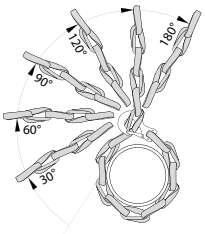


1 leg chain **2 leg chains** **3 and 4 leg chains** **Basket**

Type of hitch		a	b	c	c	d e	d e	f
Angle of inclination (ß)		-*	-	0°-45°	45°-60°	0°-45°	45°-60°	-**
Load factor		**1**	**0.8**	**1.4**	**1**	**2.1**	**1.5**	**1.5**
Working Load Limit (t)	11x15	2.6	2.08	3.6	2.6	5.46	3.9	3.9
	11x20	4.0	3.2	5.6	4.0	8.4	6.0	6.0
	15x25	5.0	4.0	7.0	5.0	10.5	7.5	7.5
	13x30	6.8	5.44	9.52	6.8	14.28	10.2	10.2
	15x40	10.3	8.2	14.4	10.3	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 angle ß, which is the angle between the sling leg and the vertical, shall never exceed 60°.

* 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				
	%	11x15	11x20	15x25	13x30	15x40
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

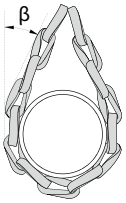
In a choker configuration you can use two different choker connections:



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)				
	%	mm	11x15	11x20	15x25	13x30	15x40
0°-5°	150	120	3.90	6.00	7.50	12.20	15.45
6°-30°	135	120	3.51	5.40	6.75	9.18	13.91
31°-45°	120	120	3.12	4.80	6.00	8.16	12.36
46°-60°	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
mm	t	mm	mm	mm
11x15	2.6	13	15.5	18
11x20	4	16	20.5	24
15x25	5	16	26	31
13x30	6.8	20	31	37
15x40	10.3	24	41	48

Configuration examples

1 leg chain



2 leg chain



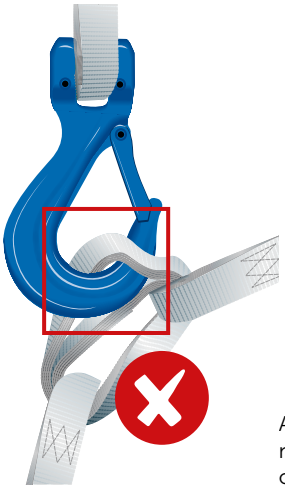
3 and 4 leg chain



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.

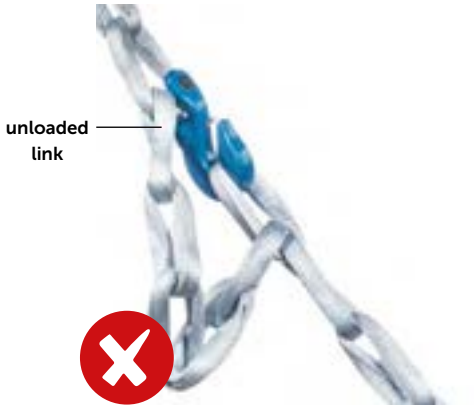




Also make sure that the hook is not hooked in between the layers of the Green Pin Tycan® link.

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









Green Pin® Master Link GR10

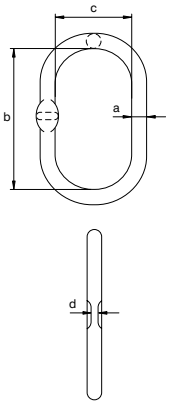
Grade 10 master link

Scan for additional product details

- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes



UMS



diameter	chain size Tycan® chain 1 leg	chain size Tycan® chain 2 legs		working load limit	length inside	width inside	thickness	weight each
a		ß ≤ 45°	45° < ß ≥ 60°		b	c	d	
mm	mm	mm	mm	t	mm	mm	mm	kg
18	11x15	11x15	11x15	5.4	135	75	9	0.84
22	11x20 / 15x25	11x20 / 15x25	11x20 / 15x25	8.2	170	90	11	1.60
25	13x30	13x30	13x30	11.2	190	103	14	2.17
30	15x40	15x40	15x40	16	235	125	17	4

CAD

Green Pin® Master Link Assembly GR10

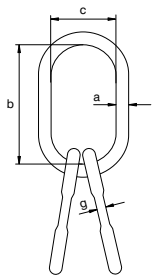
Grade 10 master link assembly

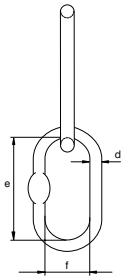
Scan for additional product details »



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

UMTS





diameter	chain size Tycan® chain 3/4 legs		working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a mm	ß ≤ 45° mm	45° < ß ≥ 60° mm	t	b mm	c mm	d mm	e mm	f mm	g mm	kg
22	11x15	11x15	6.8	170	90	18	135	75	9	3.30
28	11x20 / 15x25	11x20 / 15x25	11	209	120	20	150	82	11	5.40
36	13x30	13x30	17.7	270	145	25	190	103	14	11.2
38	15x40	15x40	21.2	250	150	30	235	125	17	15.1

CAD

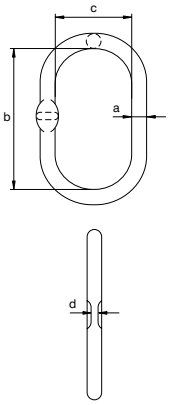
Green Pin® Wider Master Link GR10

Grade 10 wider master link

Scan for additional product details



UMSW



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

diameter	chain size Tycan® chain 1 leg	chain size Tycan® chain 2 legs		working load limit	length inside	width inside	thickness	weight each
a		ß ≤ 45°	45° < ß ≥ 60°		b	c	d	
mm	mm	mm	mm	t	mm	mm	mm	kg
17	11x15	11x15	11x15	4.1	160	90	9	0.85
19	11x20	11x20	11x20	6.7	160	90	9	1.08
25	15x25 / 13x30	15x25 / 13x30	15x25 / 13x30	11.5	210	115	13	2.43
33	15x40	15x40	15x40	17	270	140	17	5.40

CAD

Green Pin® Wider Master Link Assembly GR10

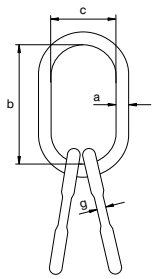
Grade 10 wider master link assembly

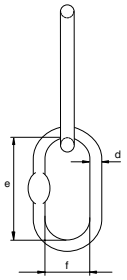
Scan for additional product details



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M and ASME B30.9
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] CE IIB
- **Article code:** scan QR code to see article codes

UMTSW





diameter	chain size Tycan® chain 3/4 legs		working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a mm	ß ≤ 45° mm	45° < ß ≥ 60° mm	t	b mm	c mm	d mm	e mm	f mm	g mm	kg
19	-	11x15	4.3	160	90	14	120	70	9	1.96
23	11x20	11x20	6.7	180	100	17	160	90	9	3.50
40	15x40	15x40	28.1	300	160	33	270	140	17	19.8

CAD

Green Pin Tycan® Connecting Link GR10

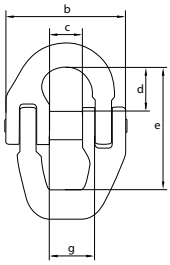
Grade 10 connecting link

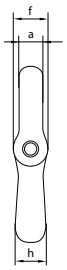
Scan for additional product details

- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes



UMJT





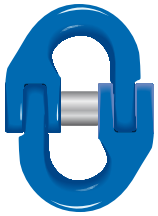
for chain size	working load limit	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	diameter	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
11x15	2.6	9	57	14	20	55	16	19	13	0.22
11x20	4	12	66	18	23	67	18	23	16	0.37
13x30	6.8	16	83	21	32	87	24	28	20	0.78
15x40	10.3	19	103	25.5	40	107.5	28	34	24	1.46

CAD

Green Pin® Connecting Link GR10

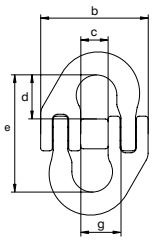
Grade 10 connecting link

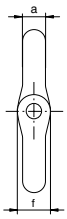
Scan for additional product details »



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
15x25	6.8	16	83	21	32	85	24	28	0.68

CAD INFO

Scan for additional product details

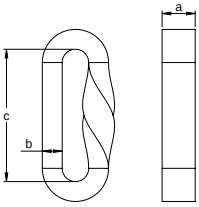
Green Pin Tycan® Lifting Chain

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 °C to +70 °C
- **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 meter	elongation at MBL	weight per meter	layers
mm	t	a mm	b mm	c mm		%	kg	
11x15	2.6	15	11	100	10	5	0.32	6
11x20	4	20	11	100	10	5	0.47	6
15x25	5	25	15	100	10	5	0.58	8
13x30	6.8	30	13	125	8	5	0.75	7
15X40	10.3	40	15	175	6	5	1.12	7

CAD INFO

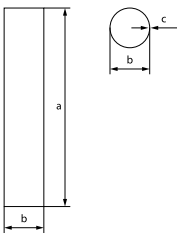
Green Pin Tycan® Sleeve

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
mm	a mm	b mm	c mm	kg
11x15	500	40	1	0.04
11x20	500	50	1	0.05
15x25	500	60	1	0.04
13x30	500	65	1	0.06
15x40	500	75	1	0.10

INFO

Green Pin Tycan® Grab Hook CL GR10

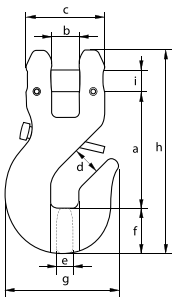
Grade 10 clevis grab hook

Scan for additional product details

- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL and MBL equals 2 x Lashing Capacity
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes



UCRCT



for chain size	working load limit	length	width	width outside	opening	thickness	width	width outside	length outside	diameter pin	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
11x15	2.6	64	17	44	15	13	23	65	109	13	0.55
11x20	4	81	22	57	20	16	29	85	138	16	1.03
15x25	5	102	24	68	25	16	40	99	178	20	2
13x30	6.8	100	32	74	30	20	40	102	177	20	1.94
15x40	10.3	128	42	96	40	24	44.7	127	216.5	24	3.37

CAD INFO

Scan for additional product details

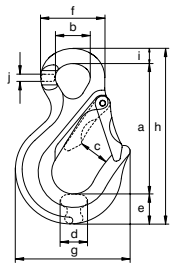
Green Pin® Sling Hook E GR10

Grade 10 eye sling hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
11x15	2.6	103	26	30	19	24	51	87	139	12	8	0.52
11x20	4	129	36	33	24	28	65	106	171	15	10	1.09
15x25 / 13x30	6.8	152	41	37	32	39	77	133	209	18	12	1.94
15x40	10.3	191	52	43	40	43	94	165	255	21	17	3.51

CAD INFO

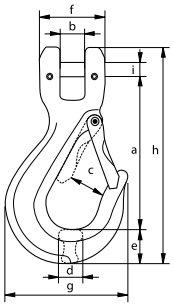
Green Pin Tycan® Sling Hook CL GR10

Grade 10 clevis sling hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
11x15	2.6	112	17	30	20	24	44	87	158	13	0.72
11x20	4	130	22	34	24	28	57	106	186	16	1.31
15x25	5	150	24	37	29	35	68	123	220	20	2.15
13x30	6.8	159	32	37	32	39	74	133	235	20	2.56
15x40	10.3	185	42	45	40	43	96	165	271	24	4.25

CAD INFO

Scan for additional product details »

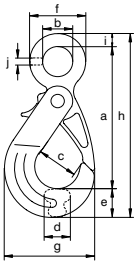
Green Pin® Self Locking Hook E GR10

Grade 10 eye self locking hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
11x15	2.6	136	30	43	24	28	57	91	178	14	8	0.91
11x20	4	168	36	48	32	34	68	110	218	16	10	1.79
15x25 / 13x30	6.8	201	47	63	37	43	87	141	264	20	13	3.36
15x40	10.3	251	60	75	43	56	111	182	332	26	16	7

CAD INFO

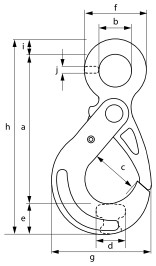
Green Pin® Self Locking Hook E RT GR10

Grade 10 self locking hook E RT



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
11x15	2.6	136	30	43	24	28	57	91	178	14	7	0.90
11x20	4	168	36	48	32	34	68	111	218	16	10	1.77
15x25 / 13x30	6.8	201	47	63	37	43	87	141	264	20	13	3.34
15x40	10.3	251	60	75	43	56	111	182	332	26	16	6.98

CAD INFO

Scan for additional product details

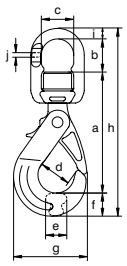
Green Pin® Self Locking Hook SE GR10

Grade 10 self locking hook with swivel



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
11x15	2.6	149	41	37	43	24	28	91	232	14	8	1.39
11x20	4	186	47	48	48	32	34	112	283	16	11	2.56
15x25 / 13x30	6.8	214	60	58	63	37	44	141	337	21	14	4.56
15x40	10.3	273	67	73	75	43	56	182	420	25	17	9.50

CAD INFO

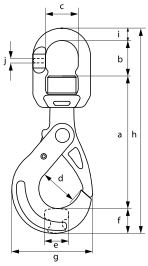
Green Pin® Self Locking Hook SE RT GR10

Grade 10 swivel self locking hook with recessed trigger



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
11x15	2.6	149	41	37	43	24	28	91	232	14	8	1.38
11x20	4	186	47	48	48	32	34	112	283	16	11	2.54
15x25 / 13x30	6.8	214	60	58	63	37	44	141	337	21	14	4.54
15x40	10.3	273	67	73	75	43	56	182	420	25	17	9.48

CAD INFO

Scan for additional product details

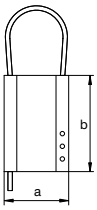
Green Pin® ID Tag

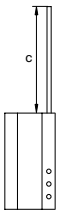
Aluminium identification tag

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



TAG

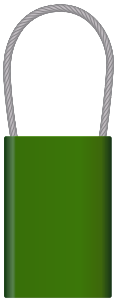




partnumber	finish	width	length	length	weight each
		a mm	b mm	c mm	kg
TAGVIERGE	self-coloured	51	76	220	0.07
TAGJ	anodized yellow	51	76	220	0.07
TAGGREEN	anodized green	51	76	220	0.07
TAGRED	anodized red	51	76	220	0.07
TAGBLUE	anodized blue	51	76	220	0.07
TAGDEMI	self-coloured	51	38	220	0.04
TAGB without wire rope	self-coloured	51	76		0.06


TAGVIERGE


TAGJ


TAGGREEN


TAGRED


TAGBLUE


TAGDEMI

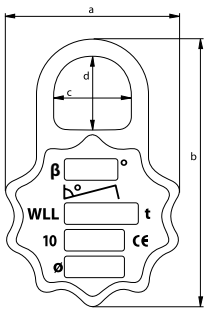
Green Pin® ID Tag for Grade 10 Slings

Forged identification tag for grade 10 slings

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



UTAGF



width	length	width inside	length inside	weight each
a mm	b mm	c mm	d mm	kg
79	121	35	32	0.30

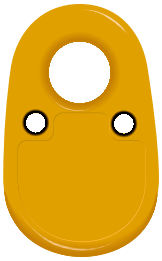
RFID

Scan for additional product details

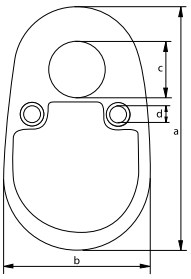
Green Pin® RFID Tag

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 °C up to +125 °C
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



TAGRFID



length	width	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
53	33	12	4	1.80

RFID INFO

Green Pin® RFID Chip

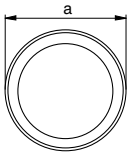
Accessory for radio-frequency identification of slings

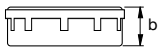
- **Material:** polymer
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Temperature range:** -40 °C up to +125 °C
- **Certification:** 2.1
- **Note:** IP68; water and ice proof





CHIPRFID





diameter	thickness	weight per 100 pcs
a mm	b mm	kg
6	2	0.02

RFID INFO

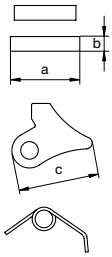
Green Pin® Self Locking Hooks GR8/GR10 Spare Kit

Replacement kit for grade 8 and 10 self locking hooks

- **Material:** steel
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 CE IIB
- **Note:** plastic tube included, to make assembly easier



VR



partnumber	length pin	diameter pin	width	weight each
	a mm	b mm	c mm	kg
VR1	22	6	28	0.02
VR2	26	6	31	0.03
VR3	32	8	37	0.05
VR4	40	10	47	0.10
VR5	55	10	58	0.20

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 8 and 10 self locking hooks with recessed trigger

- **Material:** steel
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 CE IIB
- **Note:** plastic tube included, to make assembly easier



VRRT



partnumber	length pin	diameter pin	width	weight each
	a mm	b mm	c mm	kg
GPVR2RT	26	6	31	0.03
GPVR3RT	32	8	37	0.05
GPVR4RT	40	10	47	0.10
GPVR5RT	55	10	58	0.20

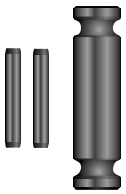
partnumber	for fitting		
	UXLORT	UXLCRT	UXLERT
GPVR2RT	GPUXLO1RT	GPUXLC1RT	GPUXLE1RT
GPVR3RT	GPUXLO2RT	GPUXLC2RT	GPUXLE2RT
GPVR4RT	GPUXLO3RT	GPUXLC3RT	GPUXLE3RT
GPVR5RT	GPUXLO4RT	GPUXLC4RT	GPUXLE4RT
	GPUXLO5RT	GPUXLC5RT	GPUXLE5RT

INFO

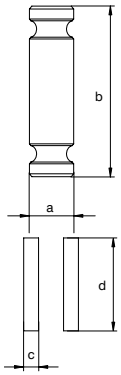
Green Pin Tycan® Clevis Fittings GR10 Spare Kit

Grade 10 spare kit for clevis fittings

- **Material:** alloy steel, grade 10, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB



UACT



partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
GPUACT15	4	24	13	43	0.04
GPUACT20	4	24	16	56	0.08
GPUACT25	5	35	20	66	0.16
GPUACT30	5	35	20	72	0.16
GPUACT40	6	45	24	94	0.16

partnumber	for fitting	
	UCSCT	UCRCT
GPUACT15	GPUCSCT15	GPUCRCT15
GPUACT20	GPUCSCT20	GPUCRCT20
GPUACT25		GPUCRCT25
GPUACT30	GPUCSCT30	GPUCRCT30
GPUACT40	GPUCSCT40	GPUCRCT40

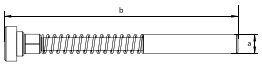
Green Pin Tycan® Grab Hook CL GR10 Locking Pin

Grade 10 locking pin for Green Pin Tycan® clevis grab hook

- **Material:** alloy steel, grade 10
- **Finish:** self-coloured
- **Certification:** 2.1 CE IIB



UALT



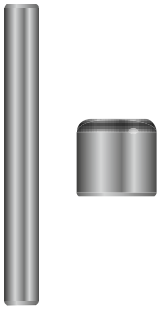
partnumber	diameter pin	length pin	weight each
	a mm	b mm	kg
GPUALT15	5.8	52	0.01
GPUALT20	5.8	63	0.02
GPUALT25	7.8	72	0.03
GPUALT30	7.8	77	0.03
GPUALT40	7.8	95	0.03

partnumber	for fitting
	UCRCT
GPUALT15	GPUCRCT15
GPUALT20	GPUCRCT20
GPUALT25	GPUCRCT25
GPUALT30	GPUCRCT30
GPUALT40	GPUCRCT40

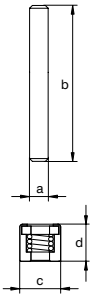
Green Pin® Connecting Link Spare Kit GR10

Grade 10 spare kit for connecting link

- **Material:** alloy steel, grade 10, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB



URMJ



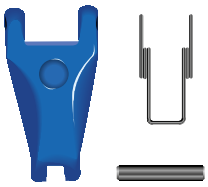
partnumber	diameter pin	length pin	diameter	width	weight each
	a mm	b mm	c mm	d mm	kg
GPURMJ8	6	54	13	14	0.02
GPURMJ10	8	66	16	18	0.02
GPURMJ13	10	84	22	22	0.05
GPURMJ16	12	105	25	25	0.10

partnumber	for fitting	
	UMJ	UMJT
GPURMJ8		GPUMJT15
GPURMJ10		GPUMJT20
GPURMJ13	GPUMJ13	GPUMJT30
GPURMJ16		GPUMJT40

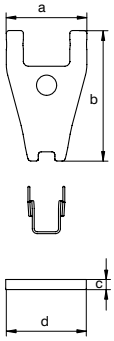
Green Pin® Latch GR10

Forged latch for grade 10

- **Material:** steel
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 CE IIB



ULF



partnumber	width	length	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
GPULF1	31	59	5	30	0.07
GPULF2	41	65	5	40	0.11
GPULF3	41	79	6	40	0.18
GPULF4	46	81	6	45	0.20

partnumber	for fitting	
	UCSO	UCSCT
GPULF1	GPUCSO8	GPUCSCT15
GPULF2	GPUCSO10	GPUCSCT20 - GPUCSCT25
GPULF3	GPUCSO13	GPUCSCT30
GPULF4	GPUCSO16	GPUCSCT40

LIFTING SLING FITTINGS

FOR SYNTHETIC SLINGS



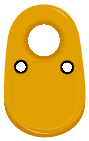
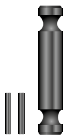
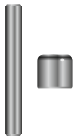
Applications

Green Pin® grade 8 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 8 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 8 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 8 lifting sling fittings for synthetic are painted. Grade 8 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 8 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 8.
- 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 8 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)
t	t
2	5
3.2	8
5.4	13.5
8.2	20.5

Green Pin® Master Link EN 1677-4 GR8

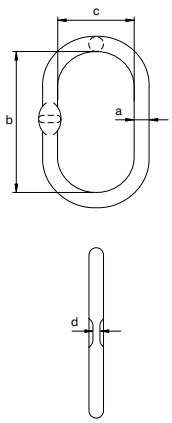
Grade 8 master link EN 1677-4

Scan for additional product details



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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		ß ≤ 45°	45° < ß ≥ 60°		b	c	d	
mm	mm	mm	mm	t	mm	mm	mm	kg
13	6/7	6	6/7	1.6	115	60	7	0.40
16	8	7/8	8	3.2	120	70	7	0.60
18	10	10	10	4.5	135	75	9	0.84
20	13	-	13	6.2	150	82	11	1.10
22	16	13	16	8.2	170	90	14	1.60
25	18	-	18	10.6	190	103	14	2.30
28	20	16	19	12.8	209	120	17	3.10
30	20/22	18	20/22	15.5	235	125	17	4
36	-	19/20	-	20	270	145	22	6.60
38	26	22	26	25	250	150	22	7.10
45	32	26	32	37	300	200	22	12.1
50	-	32	-	50	380	200	-	18
55	-	-	-	63	360	200	-	21
70	-	-	-	100	500	250	-	44
80	-	-	-	125	503	280	-	60.7

CAD INFO

* could be delivered with a yellow or red finish

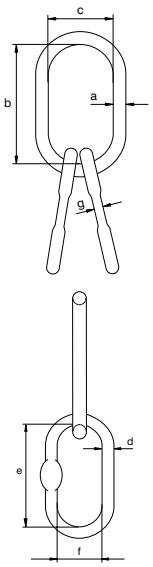
Green Pin® Master Link Assembly EN 1677-4 GR8

Grade 8 master link assembly EN 1677-4

Scan for additional product details



MTS



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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	ß ≤ 45°	45° < ß ≥ 60°		b	c	d	e	f	g	
mm	mm	mm	t	mm	mm	mm	mm	mm	mm	kg
16	6	6/7	2.5	120	70	13	115	60	7	1.20
18	6/7	8	3.5	135	75	16	120	70	7	3.10
22	8	10	6.5	170	90	18	135	75	9	3.30
25	10	13	8.5	190	103	20	150	82	11	4.50
28	-	-	10	209	120	20	150	82	11	5.40
30	13	16	13	235	125	22	170	90	14	7.20
36	16	18/19	17	270	145	25	190	103	14	11.2
38	-	20	20.8	250	150	28	209	120	17	13.3
45	18/20	22	30	300	200	36	270	145	22	25.3
50	22	26	40	380	200	38	250	150	22	32.2
55	26	32	50	360	200	38	250	150	22	35.2
60	-	-	60	430	220	45	300	200	45	54.2
70	32	-	80	500	250	55	360	200	55	86
80	-	-	100	503	250	55	360	200	55	103

CAD INFO

* could be delivered with a yellow or red finish

Green Pin® Round Web Sling Connector GR8

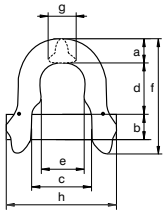
Grade 8 round web sling connector

Scan for additional product details



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
2	14	9	33	35	23	66	15	59	0.18
3.2	18	13	44	45	30	86	20	75	0.37
5.4	22	16	57	59	38	107	25	94	0.72
8.2	28	20	70	72	48	133	31	117	1.35

Example combinations with COS:



MS + CO + COS | COS + XLC | COS + CSC

* could be delivered with a yellow or red finish

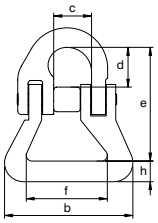
Scan for additional product details

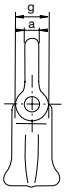
Green Pin® Round Web Sling Connecting Link GR8

Grade 8 round web sling connecting link



MJS





- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1 and ASTM A952/952M
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes

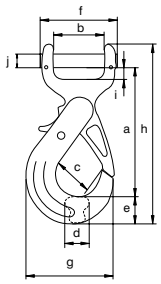
for chain diameter	working load limit	diameter	width outside	width inside	length inside	length	width inside	diameter eye	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
7/8	2	9	66	19	21	60	41	13	14	0.31
10	3.2	10	75	23	24	75	46	18	15	0.51
13	5.4	14	87	28	32	90	52	24	19	1.01

Green Pin® Flat Web Sling Safety Hook GR8

Grade 8 flat web sling self locking hook



XLS



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1
- **Finish:** painted white
- **Temperature range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
2	161	62	47	32	35	94	111	222	18	16	2.11

* could be delivered with a yellow or red finish

C

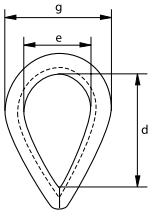
Thimbles

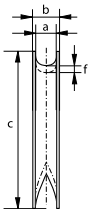
Standard commercial

- **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
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
4	4	7	25	16	11	2.5	19	0.50
5	5	8	31	22	16	3	25	0.80
6	6	10	37	26	19	3.5	30	1.40
8	8	12	51	34	24	5	38	2.80
9	9	13	57	38	29	5.5	44	3
10	10	16	64	42	32	5.5	49	4.80
12	12	18	76	51	38	6.5	57	8
14	14	20	82	57	40	8	62	10
16	16	22	89	60	42	9	66	15
18	18	26	102	67	45	10	73	22
20	20	28	115	76	51	11	81	25
22	22	30	127	83	54	12.5	87	32
24	24	32	138	90	64	14	100	46
26	26	36	152	102	68	14.5	107	66
28	28	38	165	110	73	16	115	77
30	30	42	178	120	79	17	125	80
32	32	44	203	143	93	18	141	130

C

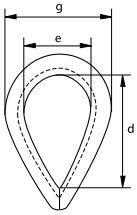
Thimbles

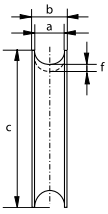
Heavy duty stub-end

- **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
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
8	9	13	51	35	22	4	44	0.50
10	11	15	64	47	30	4	54	0.80
12	13	18	76	57	35	5	62	1.40
14	15	21	89	65	45	6	76	2.80
16	18	22	102	75	50	6	83	3
18	20	28	114	85	53	7	91	4.80
20	22	30	127	94	60	8	102	8
22	24	31	140	107	65	9	110	10
24	26	34	152	114	70	9.5	118	15
28	30	39	178	130	80	10	134	22
32	34	41	203	157	100	10	162	25
36	38	48	229	175	115	11	182	32
40	42	51	254	198	120	12	188	46
44	46	62	280	214	130	14	210	66
50	53	65	305	220	140	18	248	77
56	57	68	356	245	150	23	262	80
64	67	85	407	286	185	20	280	130

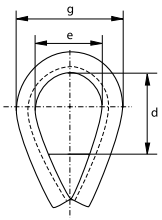
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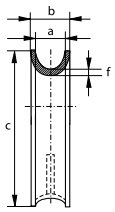
Thimbles

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 mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
35	55	220	100	80	10	150	3.20
40	65	245	120	90	12	160	5.10
50	80	290	125	110	16	200	9.20
62	100	360	160	140	20	250	17.4
72	115	390	175	160	20	265	19.4
85	125	470	245	190	20	300	29
100	150	540	290	200	25	370	39
115	165	570	300	210	25	380	52

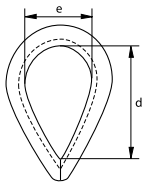
For shackle

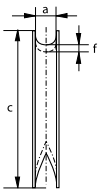
group		width groove a mm							
		35	40	50	62	72	85	100	115
G-4161	Working Load Limit WLL t	17, 25	25	35, 42.5	55	85			
G-4163		17, 25	25	35, 42.5	55	85			
G-4151		17, 25	25	35, 42.5	55	85			
G-4153		17, 25	25	35, 42.5	55	85			
P-6036							120, 150	150, 200	
G-6038							120, 150	150, 200	
P-6033		30	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 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
mm	a mm	c mm	d mm	e mm	f mm	kg
2.5	3	22	19	12	1.6	0.60
3.5	4	26	21	13	1.6	0.80
4	5	32	23	14	1.9	1
5	6	38	25	16	2.4	2
6	7	44	28	18	2.4	2
7	8	51	32	20	2.8	2.70
9	10	57	38	24	3.1	4.10
11	12	64	45	28	3.3	6.90
13	13	70	48	30	3.3	7.20
13	14	76	51	32	3.7	10.2
15	16	83	58	36	3.8	16.4
16	17	89	61	38	4.7	19
17	18	95	64	40	4.7	20.3
18	20	102	72	45	5.7	27.3
20	22	114	80	50	5.7	30.8
22	24	127	90	56	6.5	44.8
24	26	140	99	62	6.8	59.2
26	28	152	112	70	8	72
28	30	165	120	75	8	104
30	32	178	128	80	8	115
32	34	203	152	95	8.5	153
34	36	216	160	100	8.5	176
36	38	229	176	110	8.5	176
38	40	241	184	115	10.5	292
40	42	254	192	120	10.5	320
42	45	305	240	150	10.5	364

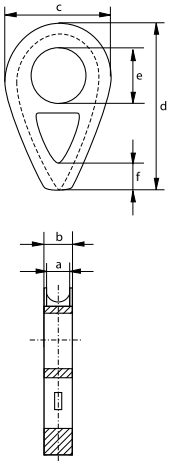
C

Thimbles

According to DIN 3091



S-6134



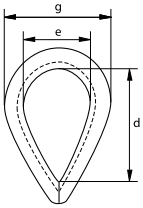
- **Material:** cast mild steel, (GTW 40)
- **Standard:** according to DIN 3091
- **Finish:** self-coloured
- **Certification:** 2.1 CE IIB
- **Note:** the diameter (e) of the timble for diameter wire rope 72 mm is 140 mm

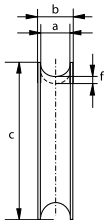
diameter rope	width groove	width overall	width	length	diameter	length	weight per 100 pcs
mm	a mm	b mm	c mm	d mm	e mm	f mm	kg
8	9	15	40	56	14	-	18
10	11	17.5	50	70	18	-	32
12	13	20	60	84	21	-	52
14	16	23.5	70	98	25	-	80
16	18	26	80	130	28	16	90
18	20	28.5	90	145	31	18	121
20	22	31	100	161	35	20	161
22	24	33.5	110	177	38	22	211
24	26	36	120	193	41	24	271
26	29	39.5	130	209	44	26	355
28	31	42	140	224	47	28	420
32	35	47	160	256	53	32	630
36	40	53	180	288	59	36	884
40	44	58	200	320	65	40	1100
44	48	63	220	352	70	44	1500
48	53	69	240	384	76	48	2000
52	57	74	260	416	81	52	2500
56	62	80	280	448	86	56	3200
64	70	90	320	512	95	64	4600
72	79	101	360	576	140	72	6600

C



E-6135
G-6135





Thimbles

Generally to DIN 3090

- **Material:** mild steel
- **Standard:** generally to DIN 3090
- **Finish:** for diameter 4 and 6 mm 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
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
4	5	8	35	20	10	2.1	25	1.40
6	7	10	50	30	15	2.6	33	3
8	9	13	68	40	20	4	43	7.10
10	11	15	77	50	25	5	47	17
12	13	19	100	60	30	6	63	24
14	16	22	110	70	35	8	70	31
16	18	25	125	80	40	8	80	50
18	20	27	142	90	45	9	90	62
20	22	30	155	100	50	10	102	90
22	24	33	165	110	55	10	107	100
24	26	35	180	120	60	10	120	130
26	29	36	190	130	65	12	122	220
28	31	37	197	140	70	12	128	240
32	35	43	225	160	80	15	145	216
36	40	60	250	180	90	15	170	430
40	44	66	290	200	100	20	190	570
44	48	72	315	220	110	20	205	850
48	53	77	350	240	120	20	220	1120
52	57	88	380	260	130	25	235	1530
56	62	95	405	280	140	25	270	2148
60	66	105	430	300	150	25	285	2300
64	70	110	485	320	160	30	310	3500

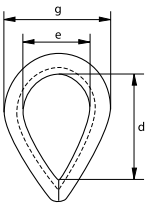
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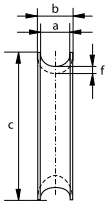
Thimbles

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 mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
3/16	5	6	9.5	47	27	18	3	32	3.50
1/4	7	7	11	51	33	20.5	3.5	36	2.80
5/16	8	8	12.7	52	33	22	4	38	5.70
3/8	10	10	14.3	64	38	25	6.3	47.6	8
7/16	11	13	17.5	73	41	29	7.9	52	14.2
1/2	13	14	20.6	79	45	32	7.9	58.8	18
9/16	14	15	20.6	88	56	38	7.9	64	18.9
5/8	16	16	22.2	96	59	41	8.7	74.5	22.4
11/16	17	19	28.6	108	67	45	9.5	79.4	39.7
3/4	19	21	28.6	124	73	51	11.1	92	45.6
7/8	22	22	31.7	131	83	56	12.7	102	61.5
15/16	24	25	33.4	146	92	64	12.7	110	106
1	25	27	35	162	108	70	14.3	119	97.3
1 1/8	29	29	38	178	112	76	15.9	133	151
1 1/4	32	33	41.3	197	133	95	15.9	152	204
1 3/8	35	38	47.6	228	152	105	19	175	318
1 1/2	38	41	52	254	165	114	23.8	197	363
1 5/8	41	47	57	280	188	120	24	205	499
1 3/4	44	51	57	286	178	127	25.4	228	556
1 7/8	48	60	66.6	317	190	133	28.6	248	-
2	51	64	69.8	330	203	140	30.1	257	-
2 1/8	54	64	69.8	330	203	140	30.1	257	-
2 1/4	57	67	76.2	356	246	160	31.7	296	-
2 1/2	64	75	93	420	255	170	43	300	-

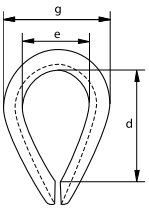
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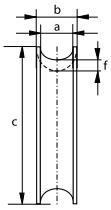
Thimbles

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
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	7	10	56	41	22	1.5	38	2.70
8	8	12.6	64	48	27	2	46	5.10
9	10	17.2	73	54	26	2.5	54	9.10
11	12	18	83	60	32	3	60	13.9
13	13.6	21.4	92	70	38	4	70	19.9
14	15	23	92	70	38	4	68	20.5
16	16.8	24.5	103	83	44	4	78	29.8
19	19.8	31.8	127	95	51	6	97	60.8
22	24	36	140	108	57	6	108	80.4
25	27	39	156	114	63	6	125	109
28 - 32	34	46	178	130	73	6	148	147
32 - 35	36	56	228	165	89	10	173	366
35 - 38	39	63	228	158	89	12	181	478
41	42	66	285	203	101	12	206	731
45	45	69	309	228	114	12	216	778
48 - 51	54	78	380	305	152	12	250	1150
57	60	92	435	356	178	16	301	1935
64	70	110	465	360	178	20	310	2640
76	85	125	550	410	180	20	330	3850

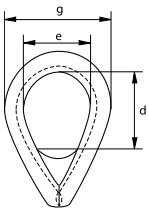
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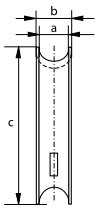
Thimbles

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
mm	a mm	b mm	c mm	d mm	e mm	g mm	kg
16	17	22	102	50	50	75	0.40
18	19	25	114	50	53	85	0.50
20	21	29	127	60	60	100	0.80
22	23	33	140	60	65	110	0.90
24	25	34	152	70	70	115	1
28	30	38	178	75	80	135	1.70
30	33	44	203	80	100	155	2.50
36	38	49	229	110	115	175	4
40	41	52	254	120	120	190	4.50
44	46	60	279	120	130	210	7
50	52	65	305	140	145	245	8.30
56	60	72	356	155	155	260	12.5
64	70	84	432	200	190	310	19.5
76	81	119	483	235	230	350	29
82	92	130	559	240	255	395	35
90	105	145	610	275	280	430	42
120	120	155	660	295	285	450	58

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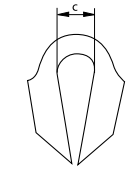
Thimbles

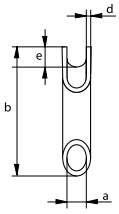
Tubular type

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



P-6190





diameter wire rope	diameter	length	width inside	thickness	height	weight each
mm	a mm	b mm	c mm	d mm	e mm	kg
10	12	90	23	4	8	0.23
12	15	105	27	5	10	0.40
14	17	115	27	5	10	0.50
16	19	120	32	5	12	0.60
18	22	140	35	5	15	0.75
22	25	180	45	6	16	1.40
24	28	180	45	7	16	1.75
26	30	195	47	7	18	2
32	35	215	60	7	22	2.50
38	45	260	70	7	27	3.50
44	50	280	75	7	28	4.20

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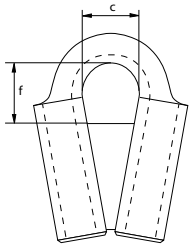
Thimbles

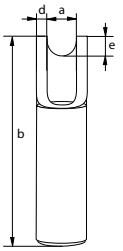
Tubular type with welded plate

- **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
mm	a mm	b mm	c mm	d mm	e mm	f mm	kg
10	12	84	23	4	8	24	0.26
12	15	95	27	5	10	31	0.42
14	17	100	27	5	10	38	0.48
16	19	112	32	5	12	46	0.61
18	22	125	35	5	15	47	0.95
22	25	150	45	6	16	61	1.33
24	28	157	45	7	16	56	1.67
26	30	170	47	7	18	68	1.96
32	35	190	60	7	22	73	2.43
36	40	212	70	9	26	80	4.32
38	45	228	70	7	27	94	3.67

Green Pin® ID Tag

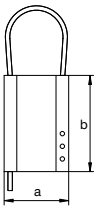
Aluminium identification tag

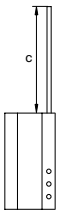
Scan for additional product details

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



TAG

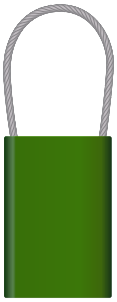




partnumber	finish	width	length	length	weight each
		a mm	b mm	c mm	kg
TAGVIERGE	self-coloured	51	76	220	0.07
TAGJ	anodized yellow	51	76	220	0.07
TAGGREEN	anodized green	51	76	220	0.07
TAGRED	anodized red	51	76	220	0.07
TAGBLUE	anodized blue	51	76	220	0.07
TAGDEMI	self-coloured	51	38	220	0.04
TAGB without wire rope	self-coloured	51	76		0.06


TAGVIERGE


TAGJ


TAGGREEN


TAGRED


TAGBLUE

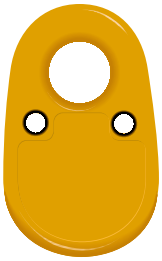

TAGDEMI

Scan for additional product details

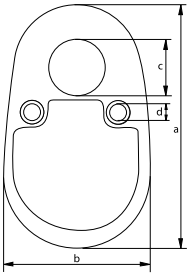
Green Pin® RFID Tag

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 °C up to +125 °C
- **Certification:** 2.1
- **Note:** IP68; water and ice proof



TAGRFID



length	width	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
53	33	12	4	1.80

RFID INFO

Green Pin® RFID Chip

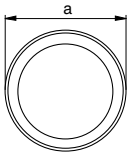
Accessory for radio-frequency identification of slings

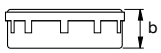
- **Material:** polymer
- **Standard:** RF Protocol ISO 15693 Operating Frequency HF - 13.56 MHz with individual serial number
- **Temperature range:** -40 °C up to +125 °C
- **Certification:** 2.1
- **Note:** IP68; water and ice proof





CHIPRFID



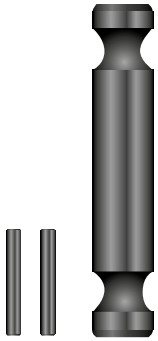


diameter	thickness	weight per 100 pcs
a mm	b mm	kg
6	2	0.02

RFID INFO

Green Pin® Clevis For Web Sling Connector GR8 Spare Kit

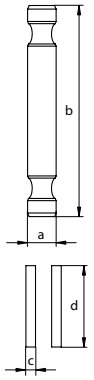
Grade 8 spare kit for clevis for web sling connector



- **Material:** alloy steel, grade 8, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB

partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
GPRCOS7/8	9	58	3	22	0.03
GPRCOS10	13	74	4	24	0.08
GPRCOS13	16	94	4	32	0.15
GPRCOS16	20	116	5	35	0.25

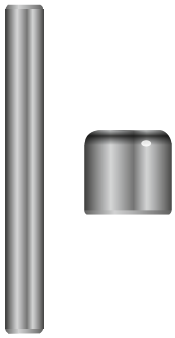
RCOS



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

Green Pin® Connecting Link Spare Kit GR8

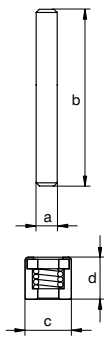
Grade 8 spare kit for connecting link



- **Material:** alloy steel, grade 8, quenched and tempered
- **Finish:** self-coloured
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB

partnumber	diameter pin	length pin	diameter	width	weight each
	a mm	b mm	c mm	d mm	kg
GPRMJ6	5	41	12	10	0.01
GPRMJ7/8	6	54	13	14	0.02
GPRMJ10	8	66	16	18	0.04
GPRMJ13	10	84	22	22	0.10
GPRMJ16	12	105	25	25	0.15
GPRMJ18/20	15	122	28	32	0.25
GPRMJ22	17	141	32	35	0.38
GPRMJ26	20	169	38	40	0.54
GPRMJ32	22	199	45	50	1

RMJ



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 8 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 8 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 8 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 8 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 -20 °C up to +200 °C cannot be used above +200 °C.

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 above 30° 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 above 30° 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	2x35mm	1.2	2.4	1.2	2.4	1.68	1.2	1.2	2.52	1.80	1.2
	GPPAS3	a9 z13	2x42mm	3.2	6.4	3.2	6.4	4.48	3.2	3.2	6.72	4.80	3.2
	GPPAS5	a11 z16	2x49mm	5.4	10.8	5.4	10.8	7.56	5.4	5.4	11.34	8.10	5.4
	GPPAS8	a14 z20	2x64mm	8.2	16.4	8.2	16.4	11.48	8.2	8.2	17.22	12.30	8.2
	GPPAS12	a16 z21	2x78mm	12.8	25.6	12.8	25.6	17.92	12.8	12.8	26.88	19.20	12.8
	GPPAS15	a17 z23	2x90mm	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

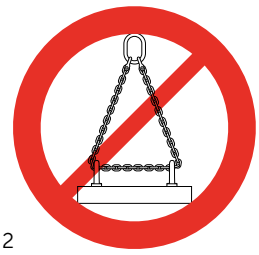
The thread length should be adapted to the material of the load. For hard materials, the thread length must not be smaller than 1.5 times the diameter (e.g. M20, minimum length 30 mm). For soft materials such as aluminium or brass, a length of 3 times the diameter is needed. For soft materials, consider 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



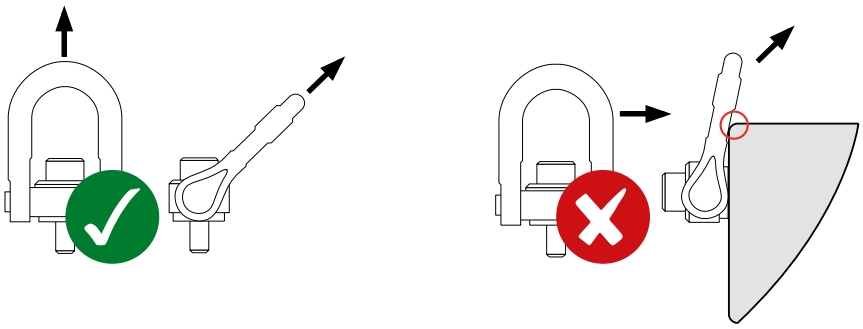
2

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

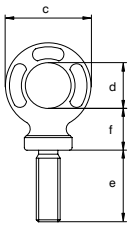
Grade 8 lifting eye

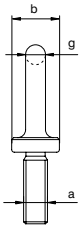
Scan for additional product details



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.2	M6 x 1.00	20	34	20	20	17	7	0.05
0.4	M8 x 1.25	20	34	20	24	17	7	0.06
0.7	M10 x 1.50	20	38	22	30	19	8	0.08
1	M12 x 1.75	25	47	27	36	23	10	0.14
1.2	M14 x 2.00	30	57	30	40	27	14	0.25
1.5	M16 x 2.00	36	63	35	55	31	14	0.39
2	M18 x 2.50	36	63	35	55	31	14	0.40
2.5	M20 x 2.50	40	72	40	59	34	16	0.58
3	M22 x 2.50	42	82	45	66	38	19	0.77
4	M24 x 3.00	55	95	55	84	40	20	1.19
5	M27 x 3.00	55	95	55	84	40	20	1.18
6	M30 x 3.50	60	108	60	99	51	24	1.87
7	M33 x 3.50	60	108	60	99	51	24	1.96
8	M36 x 4.00	65	118	68	117	48	25	2.44
9	M39 x 4.00	65	118	68	117	48	25	2.59
10	M42 x 4.50	70	142	80	135	61	31	4.14
15	M45 x 4.50	70	142	80	135	61	31	4.15
18	M48 x 5.00	95	181	97	150	69	42	8.22
20	M52 x 5.00	95	181	97	150	69	42	8.55
25	M56 x 5.50	95	181	97	150	69	42	8.85
30	M60 x 5.50	95	181	97	150	69	42	9.16
36	M64 x 6.00	95	181	97	150	69	42	9.55

CAD INFO

Green Pin® Lifting Eye Length as DIN580 GR8

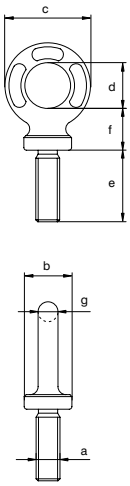
Grade 8 lifting eye length as DIN580

Scan for additional product details



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.2	M6 x 1.00	20	34	20	13	17	7	0.05
0.4	M8 x 1.25	20	34	20	13	17	7	0.05
0.7	M10 x 1.50	20	38	22	17	19	8	0.08
1	M12 x 1.75	25	47	27	21	23	10	0.13
1.2	M14 x 2.00	30	57	30	27	27	14	0.24
1.5	M16 x 2.00	36	63	35	27	31	14	0.34
2	M18 x 2.50	36	63	35	30	31	14	0.36
2.5	M20 x 2.50	40	72	40	30	34	16	0.52
3	M22 x 2.50	42	82	45	36	38	19	0.74
4	M24 x 3.00	55	95	55	36	40	20	1
5	M27 x 3.00	55	95	55	45	40	20	1.03
6	M30 x 3.50	60	108	60	45	51	24	1.66
7	M33 x 3.50	60	108	60	54	51	24	1.66
8	M36 x 4.00	65	118	68	54	48	25	2.03
9	M39 x 4.00	65	118	68	63	48	25	2.08
10	M42 x 4.50	70	142	80	63	61	31	3.37
15	M45 x 4.50	70	142	80	68	61	31	3.47
18	M48 x 5.00	95	181	97	68	69	42	7.17
20	M52 x 5.00	95	181	97	78	69	42	7.53
25	M56 x 5.50	95	181	97	78	69	42	7.52
30	M60 x 5.50	95	181	97	90	69	42	7.78
36	M64 x 6.00	95	181	97	90	69	42	8.42

CAD INFO

Green Pin® Lifting Eye UNC GR8

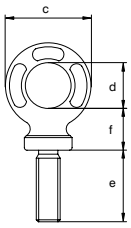
Grade 8 lifting eye UNC

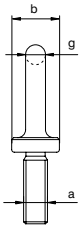
Scan for additional product details



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.2	1/4 - 20UNC	20	34	20	20	17	7	0.05
0.7	3/8 - 16UNC	20	38	22	30	19	8	0.08
1	1/2 - 13UNC	25	47	26	36	23	10	0.14
1.5	5/8 - 11UNC	36	65	35	53	30	14	0.38
2.5	3/4 - 10UNC	40	73	39	58	34	16	0.55
3	7/8 - 9UNC	42	82	44	64	38	19	0.81
4	1 - 8UNC	55	95	54	84	40	20	1.14
5	1 1/8 - 7UNC	55	95	54	84	40	20	1.21
6	1 1/4 - 7UNC	60	108	59	99	49	24	1.90
8	1 1/2 - 6UNC	65	118	67	117	45	25	2.52
10	1 3/4 - 5UNC	70	142	80	135	61	31	4.26
15	2 - 4 1/2UNC	70	142	80	135	61	31	4.66
25	2 1/2 - 4UNC	95	181	97	150	69	42	9.55

CAD INFO

Green Pin® Eye Nut GR8

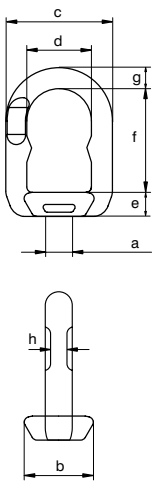
Grade 8 eye nut

Scan for additional product details



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** EN1677-1 and ASME B30.26
- **Finish:** painted white
- **Temperature range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.2	M6 x 1.00	31	51	30	14	45	11	6	0.15
0.4	M8 x 1.25	31	51	30	14	45	11	6	0.15
0.7	M10 x 1.50	31	51	30	14	45	11	6	0.15
1	M12 x 1.75	39	56	32	15	48	12	6	0.23
1.2	M14 x 2.00	39	56	32	15	48	12	6	0.23
1.5	M16 x 2.00	44	65	37	16	60	14	8	0.38
2	M18 x 2.50	44	65	37	16	60	14	9	0.38
2.5	M20 x 2.50	44	65	37	16	60	14	9	0.37
3	M22 x 2.50	52	79	49	21	75	16	11	0.63
4	M24 x 3.00	52	79	49	21	75	16	11	0.63
5	M27 x 3.00	52	79	49	21	75	16	11	0.63
6	M30 x 3.50	66	96	58	24	88	21	14	1.11
7	M33 x 3.50	66	96	58	24	88	21	14	1.11
8	M36 x 4.00	84	121	73	39	100	25	17	2.22
9	M39 x 4.00	84	121	73	39	100	25	17	2.22
10	M42 x 4.50	84	121	73	39	100	25	17	2.22
15	M45 x 4.50	90	132	82	41	122	25	22	3.27
18	M48 x 5.00	90	132	82	41	122	25	22	3.27

CAD INFO

Scan for additional product details

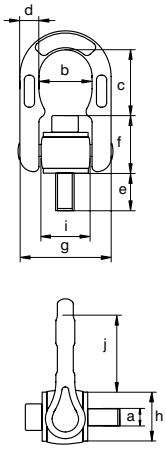
Green Pin® Rotating Hoist Ring GR8

Grade 8 rotating hoist ring



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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. 90°

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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	mm	Nm	kg
0.4	M8 x 1.25	36	42	12	18	35	69	34	35	43	6	6.5	0.43
0.7	M10 x 1.5	36	40	12	18	37	69	34	35	43	8	13	0.44
1	M12 x 1.75	36	38	12	23	39	69	34	35	43	10	22	0.46
1.3	M14 x 2.0	36	36	12	23	41	69	34	35	43	12	35	0.47
1.6	M16 x 2.0	36	43	12	28	43	69	34	35	52	14	55	0.52
2	M18 x 2.5	36	41	12	28	45	69	34	35	52	14	80	0.54
2.5	M20 x 2.5	36	39	12	33	47	69	34	35	52	17	110	0.59
3	M22 x 2.5	53	57	19	32	70	104	49	52	71	17	150	1.88
4	M24 x 3.0	53	56	19	37	72	104	49	52	71	19	190	1.93
5	M27 x 3.0	53	63	19	45	64	104	49	52	71	19	280	1.96
6.3	M30 x 3.5	53	63	19	45	64	104	49	52	71	19	380	2.03
7	M33 x 3.5	73	93	30	54	83	149	68	72	98	19	520	5.28
10	M36 x 4.0	73	93	30	54	83	149	68	72	98	19	600	5.35
10	M39 x 4.0	73	93	30	63	83	149	68	72	98	19	870	5.45
12.5	M42 x 4.5	71	87	30	63	84	146	68	77	98	19	1000	5.56

CAD INFO

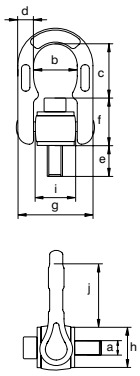
Green Pin® Rotating Hoist Ring UNC GR8

Grade 8 rotating hoist ring UNC



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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. 90°

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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	mm	Nm	kg
0.4	5/16 - 18UNC	36	42	12	18	35	69	34	35	43	6	6.5	0.43
0.6	3/8 - 16UNC	36	40	12	18	37	69	34	35	43	8	13	0.44
1	1/2 - 13UNC	36	38	12	24	39	69	34	35	43	10	22	0.46
1.7	5/8 - 11UNC	36	43	12	31	43	69	34	35	52	13	55	0.55
2.5	3/4 - 10UNC	36	39	12	31	47	69	34	35	52	16	110	0.55
3.5	7/8 - 9UNC	53	57	19	35	70	104	49	52	71	19	150	1.88
4.5	1 - 8UNC	53	54	19	41	73	104	49	52	71	19	190	1.93
6.8	1 1/4 - 7UNC	53	62	19	55	64	104	49	52	71	19	380	2.11
10.8	1 1/2 - 6UNC	73	92	30	75	83	146	68	72	98	19	600	5.55
13.6	2 - 4 1/2UNC	73	96	30	75	80	146	68	72	98	19	1000	6.20

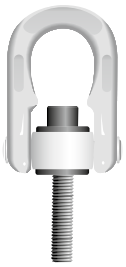
CAD INFO

* could be (for some sizes) delivered with a red finish

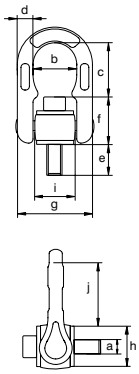
Green Pin® Long Rotating Hoist Ring GR8

Grade 8 rotating hoist ring longer length

Scan for additional product details



ADAL



- **Material:** alloy steel, grade 8, 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 °C up to +200 °C
- **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. 90°

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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	mm	Nm	kg
0.4	M8 x 1.25	36	42	12	52	35	69	34	35	43	6	6.5	0.46
0.4	M8 x 1.25	36	42	12	92	35	69	34	35	43	6	6.5	0.47
0.7	M10 x 1.5	36	40	12	62	37	69	34	35	43	8	13	0.50
0.7	M10 x 1.5	36	40	12	125	37	69	34	35	43	8	13	0.47
1	M12 x 1.75	36	38	12	62	39	69	34	35	43	10	22	0.53
1	M12 x 1.75	36	38	12	125	39	69	34	35	43	10	22	0.49
1.6	M16 x 2.0	36	43	12	92	43	69	34	35	52	14	55	0.71
1.6	M16 x 2.0	36	43	12	172	43	69	34	35	52	14	55	0.60
2.5	M20 x 2.5	36	39	12	112	47	69	34	35	52	17	110	0.75
2.5	M20 x 2.5	35	38	13	172	47	68	34	38	52	17	110	0.87
4	M24 x 3.0	53	56	19	112	72	104	49	52	71	19	190	2.16
4	M24 x 3.0	53	56	19	172	72	104	49	52	71	19	190	2.33
5	M27 x 3.0	53	63	19	101	64	104	49	52	71	19	280	2.20
6.3	M30 x 3.5	53	63	19	101	64	104	49	52	71	19	380	3.05
6.3	M30 x 3.5	53	63	19	261	64	104	49	52	71	19	380	2.27
10	M36 x 4.0	73	93	30	110	83	149	68	72	98	19	600	5.72

CAD INFO

Scan for additional product details

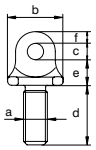
Green Pin® Small Lifting Eye GR8

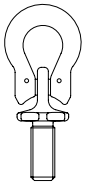
Grade 8 small lifting eye

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** EN1677-1
- **Finish:** painted red or white
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 MTC [a] MPI [b] CE IIA
- **Article code:** scan QR code to see article codes



OL





working load limit	diameter thread	diameter base	diameter eye inside	length	thickness base	width	can be combined with	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm		kg
0.5	M8 x 1.25	28	8	30	13	6	GPXLC05, GPXLC0, GPCO5, GPCO6, GPMP5, GPMP6, GPCSC5, GPCSC6	0.05
0.9	M10 x 1.50	28	8	30	13	6		0.05
1.25	M12 x 1.75	28	8	30	13	6		0.06
1.5	M14 x 2.00	31	9	45	18	9	GPXLC1, GPCO7/8, GPMP7/8, GPCSC7/8	0.12
1.9	M16 x 2.00	31	9	45	18	9		0.14
2.25	M18 x 2.50	31	9	45	18	9		0.15
3.12	M20 x 2.50	40	13	55	20	10	GPXLC2, GPCO10, GPMP10, GPCSC10	0.25
3.8	M22 x 2.50	40	13	55	20	10		0.28
5	M24 x 3.00	53	16	68	29	12	GPXLC3, GPCO13, GPMP13, GPCSC13	0.53
6.25	M27 x 3.00	53	16	68	29	12		0.58
8	M30 x 3.50	59	20	90	35	13	GPXLC4, GPCO16, GPMP16, GPCSC16	0.94
9	M33 x 3.50	59	20	90	35	13		1.03
10	M36 x 4.00	59	20	90	35	13		1.12
12.5	M39 x 4.00	75	24	105	40	18	GPXLC5, GPCO18/20, GPMP18/20, GPCSC18/20	1.90
15	M42 x 4.50	75	24	105	40	18		2.02

CAD INFO

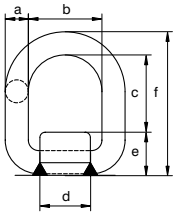
Green Pin® Weld-On Transport Ring GR8

Grade 8 Weld-on transport ring

- **Material:** base: mild steel, ring: alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted white*
- **Temperature range:** -40 °C up to +200 °C
- **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



PAS



working load limit	diameter	width inside	length inside	length base	height base	length	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
1.2	13	40	41	35	28	82	0.40
3.2	18	45	47	42	33	98	0.77
5.4	22	55	57	49	42	121	1.42
8.2	26	70	67	64	50	143	2.50
12.8	28	85	90	78	55	173	3.70
15.5	34	99	93	90	63	190	5.67

CAD INFO

* could be (for some sizes) delivered with a red finish

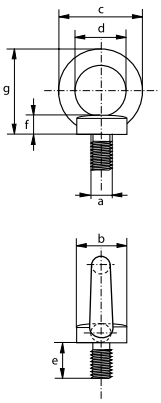
C

Eye bolts, generally to DIN 580

Generally to DIN 580



E-8140



- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.07	M6 x 1.00	20	36	20	13	6	36	5.10
0.14	M8 x 1.25	20	36	20	13	6	36	5.50
0.23	M10 x 1.50	25	45	25	17	8	45	10.3
0.34	M12 x 1.75	30	54	30	20.5	10	53	16.9
0.49	M14 x 2.00	35	63	35	27	12	60	29.9
0.7	M16 x 2.00	35	63	35	27	12	62	30.7
0.9	M18 x 2.00	40	72	40	30	14	71	42.8
1.2	M20 x 2.50	40	72	40	30	14	71	42.4
1.5	M22 x 2.50	45	81	45	36	14	80	62.8
1.8	M24 x 3.00	50	90	50	36	18	90	90.8
2.5	M27 x 3.00	50	90	50	39	18	90	88.3
3.2	M30 x 3.50	65	108	60	45	22	109	159
4.3	M33 x 3.50	65	108	60	45	22	110	167
4.6	M36 x 4.00	75	126	70	54	26	128	235
6.1	M39 x 4.00	75	126	70	54	26	130	266
6.3	M42 x 4.50	85	144	80	63	30	147	403
8	M45 x 4.50	85	144	80	63	35	150	521
8.6	M48 x 5.00	100	166	90	68	35	168	632
11.5	M56 x 5.50	110	184	100	78	38	187	879
16	M64 x 6.00	120	206	110	90	42	208	1240
20	M72 x 6.00	150	260	140	100	50	260	2293

CAD

C

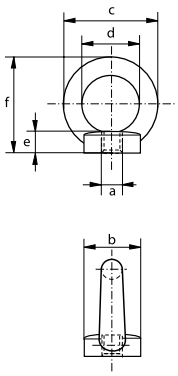
Eye nuts, generally to DIN 582

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
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
0.07	M6 x 1.00	20	36	20	8.5	36	5.10
0.14	M8 x 1.25	20	36	20	8.5	36	5.20
0.23	M10 x 1.50	25	45	25	10	45	9.40
0.34	M12 x 1.75	30	54	30	11	53	16
0.49	M14 x 2.00	35	63	35	13	60	25.5
0.7	M16 x 2.00	35	63	35	13	62	24
0.9	M18 x 2.00	40	72	40	16	71	36
1.2	M20 x 2.50	40	72	40	16	71	35.2
1.5	M22 x 2.50	45	81	45	18	80	51.7
1.8	M24 x 3.00	50	90	50	20	90	75.4
2.5	M27 x 3.00	50	90	50	20	90	102
3.2	M30 x 3.50	65	108	60	25	109	125
4.3	M33 x 3.50	65	108	60	25	109	131
4.6	M36 x 4.00	75	126	70	30	128	208
6.1	M39 x 4.00	75	126	70	30	130	210
6.3	M42 x 4.50	85	144	80	35	147	305
8	M45 x 4.50	85	144	80	35	150	407
8.6	M48 x 5.00	110	184	100	45	187	502
8.6	M52 x 5.00	110	184	100	45	187	830
11.5	M56 x 5.50	110	184	100	45	187	669
16	M64 x 6.00	120	206	110	50	208	930
21	M72 x 6.00	150	260	140	60	260	1500

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.

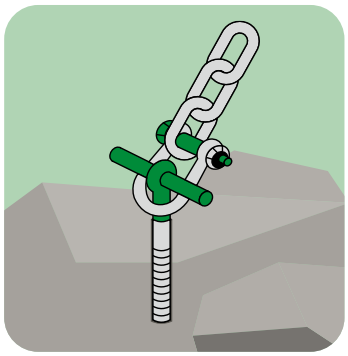
Fishing and aquaculture products must be regularly inspected in accordance with the safety standards and regulations given in the country of use. This is required because the products in use may be affected by deteriorating conditions such as wear, misuse and overloading, which may lead to deformation 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.

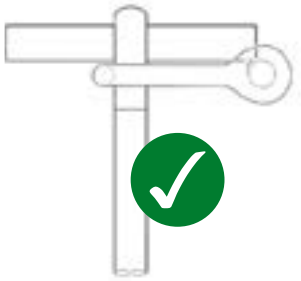
For instructions on how to machine the hole and the application and hardening time of the grouting, please always consult the installation manual of the grouting supplier first. The mounting depth is indicated by the green colour. Install the Mooring Bolt NS9415 T until the green-coloured part is reached.
The green-coloured part may not enter the hole.

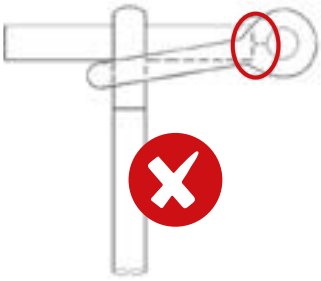




Assembly of Green Pin® Shackles to Green Pin® Mooring Bolts

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.

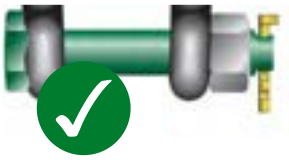


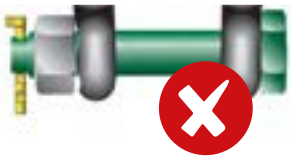


In any case; Shackles and mooring bolts that are connected to each other shall have dimensions that are adapted to each other, in order to prevent any increase in the risk of damage and fish escape.

Assembly of Green Pin® Mooring Shackles

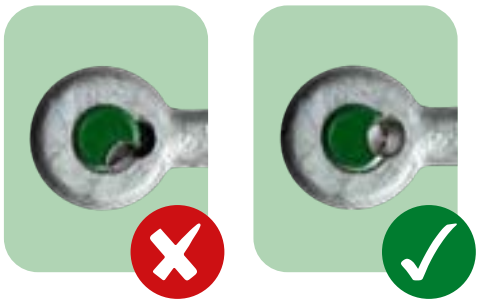
Green Pin® Mooring Shackle is equipped with a chamber in which the pinhead will fit. During assembling the pinhead will block in the chamber which facilitates easier assembling. Please note that it is not allowed to fit the nut into this chamber.





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 4 x 25 mm 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

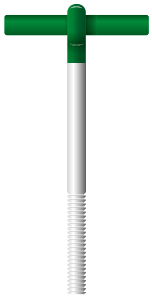
Use the square key to break the plug. If needed, a cheater pipe can be used to increase the force on the plug.

Green Pin® Mooring Bolt NS9415 T

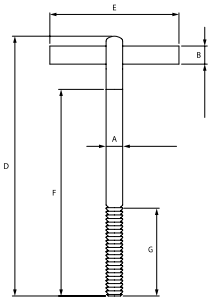
Bolt with T-shaped end-fitting

Scan for additional product details

- **Material:** high tensile steel, grade 8, quenched and tempered
- **Standard:** NYTEK regulation and NS 9415
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] CE IIA DNV NS 9415
- **Article code:** scan QR code to see article codes



G-8310





minimum breaking load	diameter bolt	diameter crossing bar	diameter eye	length	width	mounting depth	length mounting thread	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
40	32	35	73	503	250	400	170	5.16
60	38	42	88	628	300	500	210	9.06
80	45	50	104	744	400	600	300	15.6
100	50	57	112	774	400	600	300	20
130	57	57	119	779	400	600	300	23.7
170	65	57	140	900	400	700	350	32.8

CAD INFO

CERTIFIED PRODUCT DNV NYTEK NS 9415

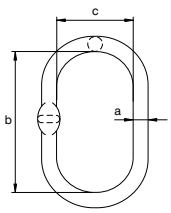
Green Pin® Master Link NS9415 GR8

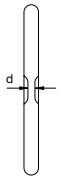
Grade 8 master link acc. to NS 9415

Scan for additional product details



G-6870





- **Material:** alloy steel, grade 8
- **Standard:** EN 1677-4 and NYTEK regulation and NS 9415
- **Finish:** hot dipped galvanized
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [b] MPI [a] DNV NS 9415
- **Article code:** scan QR code to see article codes

minimum breaking load	diameter	length inside	width inside	weight each
t	a mm	b mm	c mm	kg
32.8	22	170	90	1.60
51.5	28	209	113.5	3.20
68.3	32	270	140	5.30
112.4	38	270	140	7.80

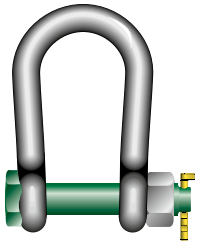
CAD INFO

CERTIFIED PRODUCT DNV NYTEK NS 9415

Green Pin® Mooring Bow Shackle NS9415 BN

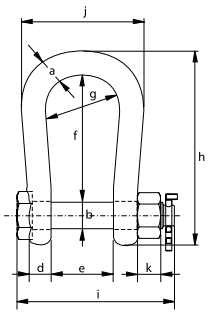
Scan for additional product details

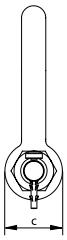
Grade 8 mooring bow shackle with safety bolt and sunken bolt head



G-4863

- **Material:** bow and pin alloy steel, grade 8, quenched and tempered
- **Standard:** NYTEK regulation and NS 9415
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20 °C up to +200 °C
- **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



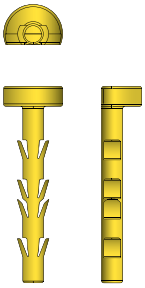


minimum breaking load	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
30	19	22	48	19	44	100	58	154	125	96	19	1.34
40	22	25	54	22	52	125	68	187	142	112	22	2.08
60	28	32	66	28	62	150	89	227	178	145	27	4.07
90	32	35	76	32	82	170	98	258	207	162	30	5.95
110	42	45	90	42	112	200	150	310	261	234	25	14.7
150	45	50	105	45	125	225	175	348	288	265	23	16.7

CAD INFO

Secure pin for mooring shackles

SPSECUREPIN



CERTIFIED PRODUCT DNV NYTEK NS 9415

Green Pin® Dee Shackle NS9415 FP

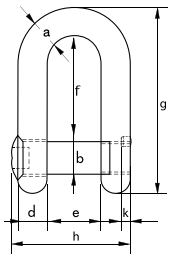
Dee shackle with square sunken hole screw pin (flush) and double safety plug

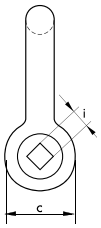
Scan for additional product details

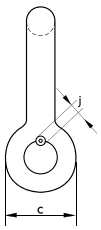


G-4139

- **Material:** bow and pin high tensile steel, grade 6, 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





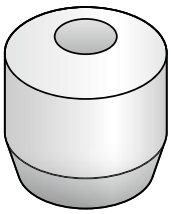


working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	size square hole	diameter plug hole	depth plug hole	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
2	13.5	16	34	13	22	43	81	51	11	8	8	0.29
3.25	16	19	40	16	27	51	97	63	11	8	8	0.60
4.75	19	22	46	19	31	59	112	74	11	8	8	0.98
6.5	22	25	52	22	36	73	134	85	13	8	8	1.26
8.5	25	28	59	25	43	85	154	99	13	8	8	2.14

CAD

Safety plug for screw pin

GPPLUG

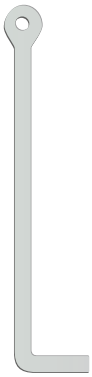


CERTIFIED PRODUCT DNV NYTEK NS 9415

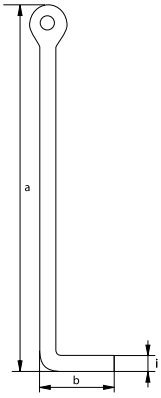
Green Pin® Sunken Hole Key

Accessory for fishing shackle with square sunken hole

Scan for additional product details



E-4170



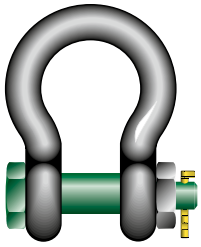
Shackle size

t	i mm	a mm	b mm
2- 3.25 - 4.75	10	190	45
6.5 - 8.5	12	230	45
9.5 - 17	16	280	45

Green Pin® Bow Shackle NS9415 BN

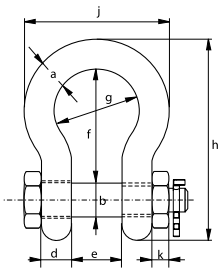
Standard bow shackle with safety bolt acc. to NS 9415

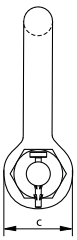
Scan for additional product details



G-4163BG

- **Material:** bow and pin high tensile steel, grade 6, 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 °C up to +200 °C
- **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



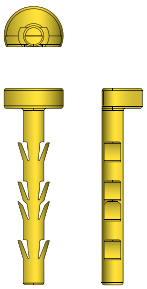


working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
	a	b	c	d	e	f	g	h	i	j	k	
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
2	13.5	16	34	13	22	51	32	89	82	58	13	0.42
3.25	16	19	40	16	27	64	43	110	98	75	17	0.74
4.75	19	22	46	19	31	76	51	129	114	89	19	1.18
6.5	22	25	52	22	36	83	58	144	130	102	22	1.77
8.5	25	28	59	25	43	95	68	164	150	118	25	2.58
9.5	28	32	66	28	47	108	75	185	166	131	27	3.66
12	32	35	72	32	51	115	83	201	178	147	30	4.91
13.5	35	38	80	35	57	133	92	227	197	162	33	6.54
17	38	42	88	38	60	146	99	249	202	175	19	8.19
25	45	50	103	45	74	178	126	300	249	216	23	14

CAD

Secure pin for mooring shackles

SPSECUREPIN

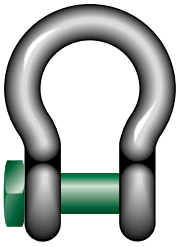


Scan for additional product details

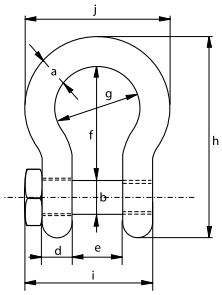
Green Pin® Fishing Bow Shackle SQ

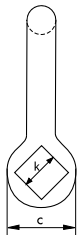
Bow shackle with square headed screw pin

- **Material:** bow and pin high tensile steel, grade 6, 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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
2	13.5	16	34	13	22	51	32	90	57.5	59	22	0.34
3.25	16	19	40	16	27	64	43	110	71	75	27	0.63
4.75	19	22	46	19	31	76	51	129	82	89	32	1
6.5	22	25	52	22	36	83	58	144	93	102	32	1.44
8.5	25	28	59	25	43	95	68	164	108	118	36	2.21
9.5	28	32	67	28	47	108	75	186	120	131	41	3.18
12	32	35	73	32	51	115	83	201	137	147	50	4.32
13.5	35	38	79	35	57	133	92	227	149	162	50	5.67
17	38	42	88	38	60	146	99	249	164	175	60	7.36
25	45	50	104	45	74	178	126	300	192	216	60	12.4

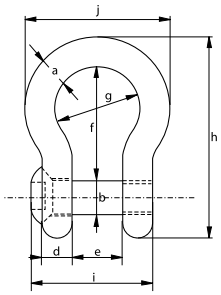
Green Pin® Fishing Bow Shackle FP

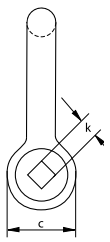
Bow shackle with square sunken hole screw pin (flush pin)

- **Material:** bow and pin high tensile steel, grade 6, 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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
2	13.5	16	34	13	22	51	32	89	51	59	11	0.31
3.25	16	19	40	16	27	64	43	110	63	75	11	0.56
4.75	19	22	46	19	31	76	51	129	74	89	11	0.96
6.5	22	25	52	22	36	83	58	144	85	102	13	1.46
8.5	25	28	59	25	43	95	68	164	99	118	13	2.18
9.5	28	32	67	28	47	108	75	185	110	131	17	2.84
12	32	35	73	32	51	115	83	201	122	147	17	3.91
17	38	42	88	38	60	146	99	249	145	175	17	6.81

Green Pin® Fishing Dee Shackle SQ

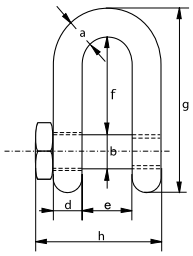
Dee shackle with square headed screw pin

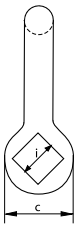
Scan for additional product details



G-4154

- **Material:** bow and pin high tensile steel, grade 6, 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





working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	width bolt head	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
2	13.5	16	34	13	22	43	82	57.5	22	0.32
3.25	16	19	40	16	27	51	97	71	27	0.58
4.75	19	22	46	19	31	59	112	82	32	0.92
6.5	22	25	52	22	36	73	134	93	32	1.33
8.5	25	28	59	25	43	85	154	108	36	2.03
9.5	28	32	67	28	47	90	168	120	41	2.75
12	32	35	73	32	51	94	180	137	50	3.96
13.5	35	38	79	35	57	115	209	149	50	5.03
17	38	42	88	38	60	127	230	164	60	6.80
25	45	50	104	45	74	149	271	192	60	11.2

Green Pin® Fishing Dee Shackle FP

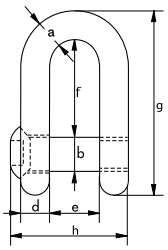
Dee shackle with square sunken hole screw pin (flush pin)

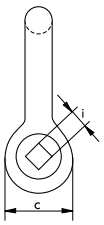
Scan for additional product details

- **Material:** bow and pin high tensile steel, grade 6, 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

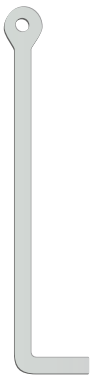




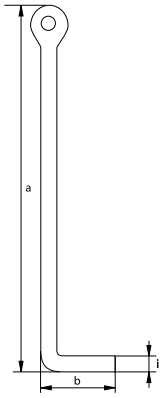
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	size hole head	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
2	13.5	16	34	13	22	43	82	51	11	0.29
3.25	16	19	40	16	27	51	97	63	11	0.60
4.75	19	22	46	19	31	59	112	74	11	0.98
6.5	22	25	52	22	36	73	134	85	13	1.26
8.5	25	28	59	25	43	85	154	99	13	2.14
9.5	28	32	67	28	47	90	168	110	17	2.58
12	32	35	73	32	51	94	180	122	17	3.49
17	38	42	88	38	60	127	230	145	17	6.22

Green Pin® Sunken Hole Key

Accessory for fishing shackle with square sunken hole



E-4170



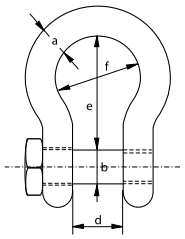
Shackle size

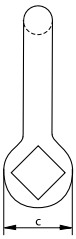
t	i mm	a mm	b mm
2- 3.25 - 4.75	10	190	45
6.5 - 8.5	12	230	45
9.5 - 17	16	280	45

C



P-3764





Fishing Shackles

Bow shackle with square head screw pin

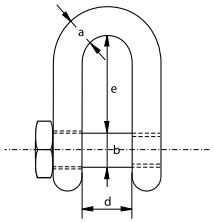
- **Material:** mild steel
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted blue
- **Certification:** 2.1 2.2

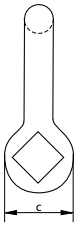
working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
1.5	13	16	32	25	48	36	0.37
2.5	16	20	40	32	64	48	0.71
3	20	22	48	38	79	60	1.24

C



P-3754





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

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
t	a mm	b mm	c mm	d mm	e mm	kg
1.5	13	16	32	25	48	0.36
2.5	16	20	40	32	64	0.69
3	20	22	48	38	75	1.18
4	22	25	53	44	83	1.61

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.

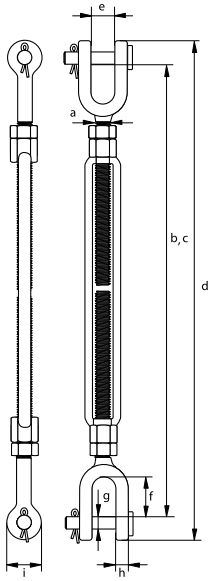
Green Pin® JJ Turnbuckle CP

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:** -20 °C up to +200 °C
- **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
t	a inch	a mm	inch	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
2.36	3/4	19	6	369	487	439	24	38	16	16	41	2.59
2.36	3/4	19	9	444	640	514	24	38	16	16	41	3.13
2.36	3/4	19	12	520	792	590	24	38	16	16	41	3.42
2.36	3/4	19	18	670	1096	740	24	38	16	16	41	4.51
3.27	7/8	22	12	561	826	638	27	42	19	19	48	4.93
3.27	7/8	22	18	713	1132	790	27	42	19	19	48	6.41
4.54	1	25	6	447	554	532	31	50	22	20	54	5.18
4.54	1	25	12	598	859	683	31	50	22	20	54	6.43
4.54	1	25	18	750	1168	835	31	50	22	20	54	8.08
4.5	1	25	24	903	1470	988	31	50	22	20	54	8.56
6.9	1 1/4	32	12	641	914	748	44	71	29	26	68	11.2
6.9	1 1/4	32	18	803	1228	910	44	71	29	26	68	13.6
6.9	1 1/4	32	24	962	1539	1069	44	71	29	26	68	15
9.71	1 1/2	38	12	675	942	806	52	71	35	28	80	17.1
9.71	1 1/2	38	18	825	1244	956	52	71	35	28	80	19.3
9.71	1 1/2	38	24	980	1551	1111	52	71	35	28	80	21.8
12.7	1 3/4	45	18	938	1316	1092	60	86	41	33	90	27.3
12.7	1 3/4	45	24	1089	1621	1243	60	86	41	33	90	31.7
16.8	2	50	24	1151	1671	1338	63	93	51	40	107	49
27.2	2 1/2	64	24	1255	1831	1480	75	114	57	41	143	88
34	2 3/4	69	24	1348	1882	1604	90	110	70	41	158	103

CAD INFO

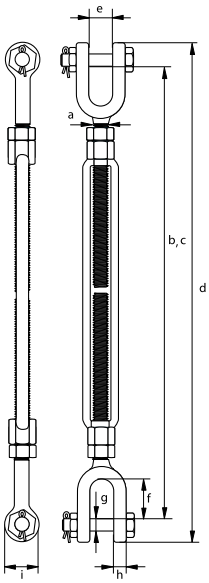
Green Pin® JJ Turnbuckle BN

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:** -20 °C up to +200 °C
- **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
t	a inch	a mm	inch	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
0.54	3/8	10	6	273	409	304	12	21	7	9	21	0.55
1	1/2	12	6	304	435	343	16	26	10	11	25	0.97
1	1/2	12	9	379	588	418	16	26	10	11	25	1.15
1	1/2	12	12	455	740	494	16	26	10	11	25	1.46
1.59	5/8	16	6	346	469	406	18	32	13	14	33	1.75
1.59	5/8	16	9	421	622	480	18	32	13	14	33	2.14
1.59	5/8	16	12	498	774	557	18	32	13	14	33	2.43
2.36	3/4	19	6	369	487	439	24	38	16	16	41	2.70
2.36	3/4	19	9	444	640	514	24	38	16	16	41	3.23
2.36	3/4	19	12	520	792	590	24	38	16	16	41	3.57
2.36	3/4	19	18	670	1096	740	24	38	16	16	41	4.55
3.27	7/8	22	12	561	826	638	27	42	19	19	48	5.22
3.27	7/8	22	18	713	1132	790	27	42	19	19	48	6.56
4.54	1	25	6	447	554	532	31	50	22	20	54	5.54
4.54	1	25	12	598	859	683	31	50	22	20	54	6.70
4.54	1	25	18	750	1168	835	31	50	22	20	54	8.61
4.5	1	25	24	903	1470	988	31	50	22	20	54	8.87
6.9	1 1/4	32	12	643	916	748	44	71	28	26	68	11.9
6.9	1 1/4	32	18	805	1230	910	44	71	28	26	68	13.6
6.9	1 1/4	32	24	964	1541	1069	44	71	28	26	68	14.2
9.71	1 1/2	38	12	675	942	806	52	71	35	28	80	18.5
9.71	1 1/2	38	18	825	1244	956	52	71	35	28	80	19.3
9.71	1 1/2	38	24	980	1551	1111	52	71	35	28	80	22
12.7	1 3/4	45	18	938	1316	1092	60	86	41	33	90	29
12.7	1 3/4	45	24	1089	1621	1243	60	86	41	33	90	33
16.8	2	50	24	1153	1673	1338	63	93	50	40	107	50
27.2	2 1/2	64	24	1255	1831	1480	75	114	57	41	143	88
34	2 3/4	69	24	1348	1882	1604	90	110	70	41	158	109

CAD INFO

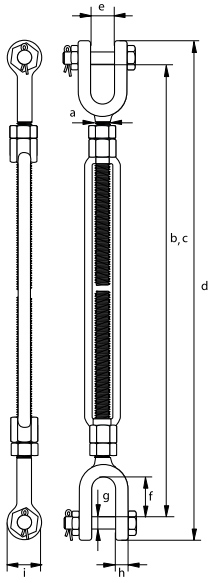
Green Pin Polar® JJ Turnbuckle BN

Grade 8 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 8, 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 °C up to +200 °C
- **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
t	a inch	a mm	inch	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
1	1/2	12	12	455	740	494	16	26	10	11	25	1.38
1.59	5/8	16	12	498	774	557	18	32	13	14	33	2.32
2.36	3/4	19	18	670	1096	740	24	38	16	16	41	4.57
3.27	7/8	22	18	713	1132	790	27	42	19	19	48	6.50
4.54	1	25	18	750	1168	835	31	50	22	20	54	8.40
6.9	1 1/4	32	18	805	1230	910	44	71	28	26	68	13.6
9.71	1 1/2	38	18	825	1244	956	52	71	35	28	80	21.1
12.7	1 3/4	45	18	938	1316	1092	60	86	41	33	90	30

CAD INFO

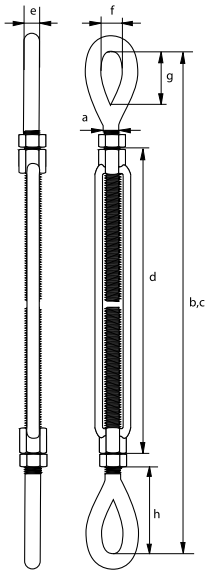
Green Pin® EE Turnbuckle

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:** -20 °C up to +200 °C
- **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
t	a inch	a mm	inch	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.54	3/8	10	6	292	428	183	10	13	29	49	0.48
1	1/2	12	6	325	455	193	12	18	36	58	0.81
1	1/2	12	9	400	608	270	12	18	36	57	1.07
1	1/2	12	12	476	760	346	12	18	36	57	1.29
1.59	5/8	16	6	380	503	203	14	21	45	79	1.33
1.59	5/8	16	9	455	656	280	14	21	45	78	1.61
1.59	5/8	16	12	531	808	356	14	21	45	78	1.96
2.36	3/4	19	6	413	532	214	17	26	54	89	2.03
2.36	3/4	19	9	490	685	291	17	26	54	89	2.47
2.36	3/4	19	12	564	837	367	17	26	54	88	2.90
2.36	3/4	19	18	718	1143	519	17	26	54	89	3.94
3.27	7/8	22	12	604	870	377	20	32	61	101	4.31
3.27	7/8	22	18	756	1174	529	20	32	61	101	5.51
4.54	1	25	6	498	604	234	24	37	76	118	4.23
4.54	1	25	12	649	909	387	24	37	76	117	5.75
4.54	1	25	18	801	1215	539	24	37	76	117	7.27
4.5	1	25	24	952	1518	692	24	37	76	116	7.80
6.9	1 1/4	32	12	712	985	385	29	47	91	145	9.28
6.9	1 1/4	32	18	862	1287	537	29	47	91	144	11.1
6.9	1 1/4	32	24	1015	1592	690	29	47	91	144	12.1
9.71	1 1/2	38	12	756	1023	401	32	55	106	156	12.6
9.71	1 1/2	38	18	916	1335	553	32	55	106	160	15.8
9.71	1 1/2	38	24	1065	1636	706	32	55	106	158	17.3
12.7	1 3/4	45	18	1020	1396	577	38	61	120	197	23.9
12.7	1 3/4	45	24	1171	1703	730	38	61	120	196	26.7
16.8	2	50	24	1264	1784	748	46	69	147	230	38.3
27.2	2 1/2	64	24	1430	1934	802	51	80	165	274	65
34	2 3/4	69	24	1450	1988	802	57	84	178	284	84

CAD INFO

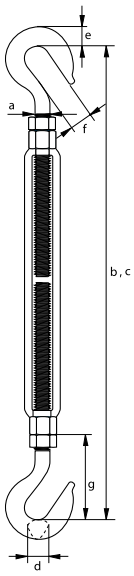
Green Pin® HH Turnbuckle

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:** -20 °C up to +200 °C
- **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
t	a inch	a mm	inch	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.54	3/8	10	6	278	415	13	16	15	42	0.53
1	1/2	12	6	305	434	16	22	16	48	0.93
1	1/2	12	9	380	587	16	22	16	47	1.16
0.68	1/2	12	12	456	739	13	19	16	47	1.34
1.59	5/8	16	6	356	479	16	23	21	67	1.40
1.59	5/8	16	9	431	632	20	24	21	66	1.96
1.59	5/8	16	12	507	784	16	23	21	66	1.79
2.36	3/4	19	6	393	511	22	27	24	79	2.04
1.36	3/4	19	9	468	664	20	27	24	78	2.49
2.36	3/4	19	12	544	816	22	27	24	78	3.27
4.54	1	25	6	479	586	26	35	31	109	4.23
4.54	1	25	12	625	886	26	35	31	106	6.64
2.27	1	25	18	778	1191	26	35	31	106	6.50
2.27	1	25	24	928	1495	26	35	31	105	8.13

CAD INFO

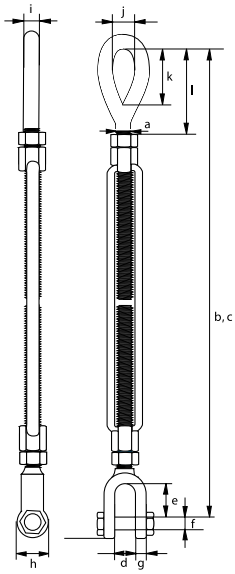
Green Pin® EJ Turnbuckle

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:** -20 °C up to +200 °C
- **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
t	a inch	a mm	inch	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg
0.54	3/8	10	6	283	418	12	21	8	9	21	10	13	29	49	0.52
1	1/2	12	6	315	446	16	26	10	11	25	12	18	36	58	0.88
1	1/2	12	9	390	598	16	26	10	11	25	12	18	36	57	1.13
1	1/2	12	12	466	751	16	26	10	11	25	12	18	36	57	1.37
1.59	5/8	16	6	363	486	18	32	13	14	33	14	21	45	79	1.55
1.59	5/8	16	9	438	639	18	32	13	14	33	14	21	45	78	1.61
1.59	5/8	16	12	514	790	18	32	13	14	33	14	21	45	78	2.17
2.36	3/4	19	6	391	510	24	38	16	16	41	17	26	54	89	2.28
2.36	3/4	19	9	467	663	24	38	16	16	41	17	26	54	89	2.82
2.36	3/4	19	12	542	815	24	38	16	16	41	17	26	54	88	3.16
2.36	3/4	19	18	694	1120	24	38	16	16	41	17	26	54	89	4.10
3.27	7/8	22	12	583	848	27	42	19	19	48	20	32	61	101	4.10
3.27	7/8	22	18	735	1153	27	42	19	19	48	20	32	61	101	5.84
4.54	1	25	6	473	579	31	50	22	20	54	24	37	76	118	4.60
4.54	1	25	12	624	884	31	50	22	20	54	24	37	76	117	6.17
4.54	1	25	18	776	1190	31	50	22	20	54	24	37	76	117	7.10
4.5	1	25	24	928	1494	31	50	22	20	54	24	37	76	116	8.35
6.9	1 1/4	32	12	677	950	44	71	29	26	68	29	47	91	145	10.4
6.9	1 1/4	32	18	833	1258	44	71	29	26	68	29	47	91	144	11.5
6.9	1 1/4	32	24	989	1566	44	71	29	26	68	29	47	91	144	13.2
9.71	1 1/2	38	12	716	983	52	71	35	28	80	32	55	106	156	13.9
9.71	1 1/2	38	18	871	1290	52	71	35	28	80	32	55	106	160	16.7
9.71	1 1/2	38	24	1023	1594	52	71	35	28	80	32	55	106	158	19.7
12.7	1 3/4	45	18	979	1356	60	86	41	33	90	38	61	120	197	25.1
12.7	1 3/4	45	24	1130	1662	60	86	41	33	90	38	61	120	196	29
16.8	2	50	24	1208	1728	63	93	51	40	107	46	69	147	230	42
27.2	2 1/2	64	24	1343	1899	75	114	57	41	143	51	80	165	274	68.5
34	2 3/4	69	24	1399	1953	90	110	70	41	158	57	84	178	284	93

CAD INFO

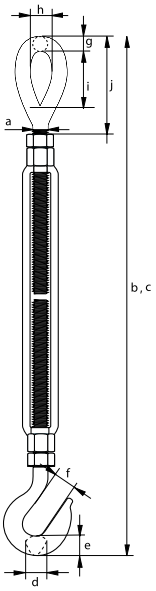
Green Pin® EH Turnbuckle

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:** -20 °C up to +200 °C
- **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
t	a inch	a mm	inch	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
0.54	3/8	10	6	285	422	13	16	15	10	13	29	49	0.40
1	1/2	12	6	315	445	16	22	16	12	18	36	58	0.73
1	1/2	12	9	390	598	16	22	16	12	18	36	57	0.89
0.68	1/2	12	12	466	750	13	19	16	12	18	36	57	1.05
1.59	5/8	16	6	368	491	16	23	21	14	21	45	79	1.11
1.59	5/8	16	9	443	644	20	24	21	14	21	45	78	1.39
1.59	5/8	16	12	519	796	16	23	21	14	21	45	78	1.79
2.36	3/4	19	6	403	521	22	27	24	17	26	54	89	1.83
1.36	3/4	19	9	479	675	20	27	24	17	26	54	89	2.30
2.36	3/4	19	12	554	827	22	27	24	17	26	54	88	2.30
4.54	1	25	6	488	595	26	35	31	24	36	75	118	3.90
4.54	1	25	12	636	897	26	35	31	24	36	75	117	5.48
2.27	1	25	18	789	1202	26	35	31	24	36	75	117	6
2.27	1	25	24	939	1506	26	35	31	24	36	75	116	7.52

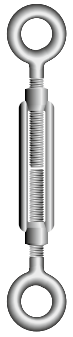
CAD INFO

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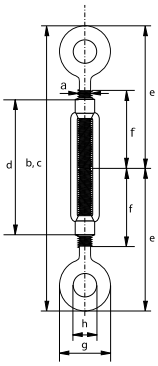
Rigging screws Eye-Eye

According to DIN 1480

- **Material:** drop forged mild steel
- **Standard:** DIN 1480
- **Finish:** electro-galvanized
- **Certification:** 2.1



E-6351



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 mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
5	114	170	70	57	35	16	8	0.07
6	160	246	110	80	55	20	9	0.11
8	168	248	110	84	57	22	10	0.2
10	210	300	125	105	68	31	14	0.28
12	222	305	125	110	70	35	16	0.43
14	244	334	140	123	75	40	18	0.61
16	300	416	170	143	88	47	22	1
20	334	466	200	165	105	52	24	1.60
22	372	527	220	185	118	60	27	2.20
24	410	587	255	208	135	65	27	2.80
30	440	605	255	220	135	71	31	4.10
33	490	690	295	245	148	88	36	6
36	554	740	295	277	158	94	38	8.50
42	600	800	330	300	170	110	49	11

C

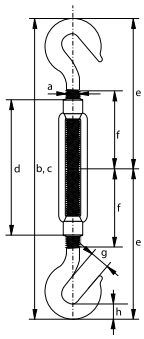
Rigging screws Hook-Hook

According to DIN 1480

- **Material:** drop forged mild steel
- **Standard:** DIN 1480
- **Finish:** electro-galvanized
- **Certification:** 2.1



E-6352



diameter thread	length closed position	length open position	length body	length end fitting	length thread	opening hook	thickness hook	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
6	184	270	110	92	55	8	15	0.11
8	200	280	110	100	57	10.5	15	0.20
10	234	323	125	117	68	13	11	0.28
12	260	343	125	130	70	16	13	0.43
14	278	368	140	139	75	18	15	0.61
16	322	438	170	161	88	20	17	1
20	382	514	200	191	105	21	21	1.60
22	456	601	220	228	118	24	28	2.20
24	496	673	255	248	135	26	33	2.80
30	550	715	255	275	135	34	35	4.10
33	600	799	295	300	148	38	40	6
36	640	825	295	320	158	46	45	8.30

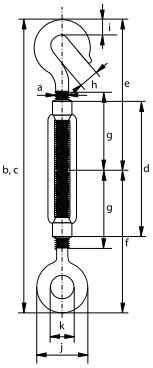
C

Rigging screws Eye-Hook

According to DIN 1480



E-6354



- **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 end fitting	length thread	opening hook	thickness hook	diameter eye outside	diameter eye inside	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
5	125	180	70	56	57	35	7	12	16	8	0.07
6	172	258	110	77	80	55	8	15	20	9	0.11
8	184	264	110	85	84	57	10.5	15	22	10	0.20
10	222	311	125	106	105	68	13	11	31	14	0.28
12	241	324	125	117	111	70	16	13	35	16	0.43
14	261	351	140	124	122	75	18	15	40	18	0.61
16	311	427	170	144	150	88	20	17	47	22	1
20	358	490	200	170	167	105	21	21	52	24	1.60
22	414	559	220	200	186	118	24	28	60	27	2.20
24	453	630	255	215	205	135	26	33	65	27	2.80
30	495	660	255	240	220	135	34	35	71	31	4.10
33	545	744	295	260	245	148	38	40	88	36	6
36	597	782	295	275	277	158	46	45	94	38	8.40

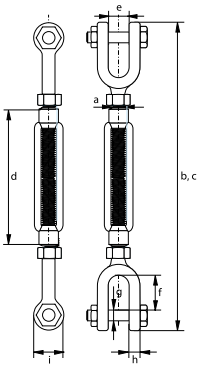
C

Rigging screws Jaw-Jaw

According to DIN 1480



E-6353



- **Material:** drop forged mild steel
- **Standard:** DIN 1480
- **Finish:** electro-galvanized
- **Note:** supplied with locking nuts
- **Certification:** 2.1

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 mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	191	277	110	7.5	12	M 6	5	13	0.16
8	194	274	110	8.5	12	M 6	6	14	0.21
10	236	325	125	11	16	M 8	8	18	0.38
12	266	349	125	13	20	M 10	10	24	0.66
14	316	406	140	16	30	M 12	12	28	1.15
16	374	490	170	18	38	M 12	12	32	1.45
20	438	570	200	20	42	M 16	16	38	2.61
22	466	611	220	22	44	M 18	18	40	3.24
24	514	691	255	24	46	M 20	20	42	4.35
30	544	709	255	30	50	M 24	22	46	6.48

C

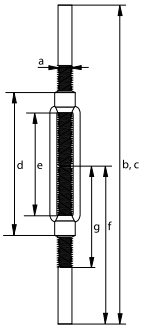
Rigging screws with Welding Ends

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 mm	c mm	d mm	e mm	f mm	g mm	kg
6	240	326	110	86	120	65	9.30
8	240	320	110	80	120	65	14
10	300	389	125	89	150	75	29
12	300	383	125	83	150	75	40
14	330	420	140	90	165	85	66
16	400	516	170	116	200	100	89
20	440	572	200	132	220	120	160
22	440	585	220	145	220	130	227
24	520	697	255	177	260	150	282
30	520	685	255	165	260	160	423
36	600	780	295	185	300	180	710

C

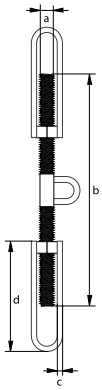
Turnbuckles (hamburgers)

For deck lashing

- **Material:** mild steel
- **Finish:** self-coloured
- **Certification:** 2.1



S-6330



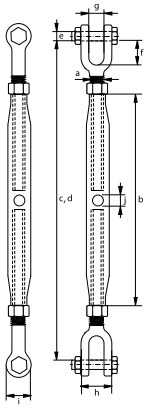
minimum breaking load	diameter thread	length thread	diameter bow	length bow	weight each
t	a mm	b mm	c mm	d mm	kg
13	24	400	16	210	2.80
18	27	400	18	210	4.40
20	30	400	20	210	5
21	36	400	20	210	7

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 6 and 8 mm rigging screws are electro-galvanized

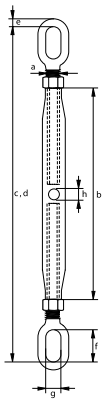
working load limit	diameter thread	length body	length closed position	length open position	diameter pin	length inside	opening jaw	width jaw	diameter jaw eye	diameter hole	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
0.2	6	100	170	250	5	19	7	20	13	6	0.15
0.32	8	108	199	279	6	25	9	24	14	8	0.26
0.5	10	125	222	312	8	26	10.5	28	19	8	0.45
0.7	12	195	315	470	10	32	13	34	23	10	0.85
1.2	16	230	388	568	12	39	18	42	29	11	1.51
1.5	20	270	449	654	16	46	20	51	33	12	2.62
2.2	22	295	490	715	20	55	25	55	38	12	3.94
3.2	24	325	538	793	22	63	30	70	46	12	5.16
4.8	33	370	680	965	30	85	38	82	60	14	11.6
6	39	400	707	1002	33	86	45	85	76	15	14.2
8.5	45	400	761	1011	39	105	50	94	85	16	20.8
11	48	400	780	1005	45	119	58	98	92	16	24

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 6 and 8 mm 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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.2	6	100	160	240	5.5	11	11	6	0.12
0.32	8	108	175	255	6	12	12	8	0.19
0.5	10	125	205	300	8.5	13	13	8	0.34
0.7	12	195	298	458	11	19	15	10	0.77
1.2	16	230	356	531	12	28	20	11	1.31
1.5	20	270	423	628	16	34	24	12	2.36
2.2	22	295	463	688	16	34	24	12	2.94
3.2	24	325	502	752	19	37	28	12	3.86
4.8	33	370	602	882	29	41	35	14	8.95
6	39	400	651	951	35	45	40	15	11
8.5*	45	400	721	897	31	49	49	16	13.4
11*	48	400	767	1032	37	52	52	16	17.9

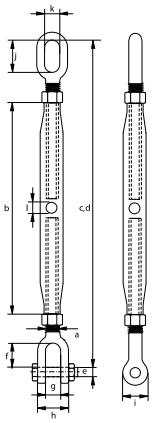
* Different design

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 6 and 8 mm 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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	kg
0.2	6	100	165	245	5	19	7	20	13	11	11	6	0.14
0.32	8	108	187	267	6	25	9	24	14	12	12	8	0.24
0.5	10	125	214	306	8	26	10.5	28	19	13	13	8	0.53
0.7	12	195	307	464	10	32	13	34	23	19	15	10	0.83
1.2	16	230	372	549	12	39	18	42	29	28	20	11	1.49
1.5	20	270	436	641	16	46	20	51	33	34	24	12	2.54
2.2	22	295	477	701	20	55	25	55	38	34	24	12	3.34
3.2	24	325	520	772	22	63	30	70	46	37	28	12	4.65
4.8	33	370	641	923	30	85	38	82	60	41	35	14	10.5
6	39	400	679	976	33	86	45	85	76	45	40	15	12.8
8.5*	45	400	741	945	39	105	50	94	85	49	49	16	20.8
11*	48	400	774	1018	45	119	58	98	92	52	52	16	24

* 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 8 up to 16 mm, 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 10) 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:

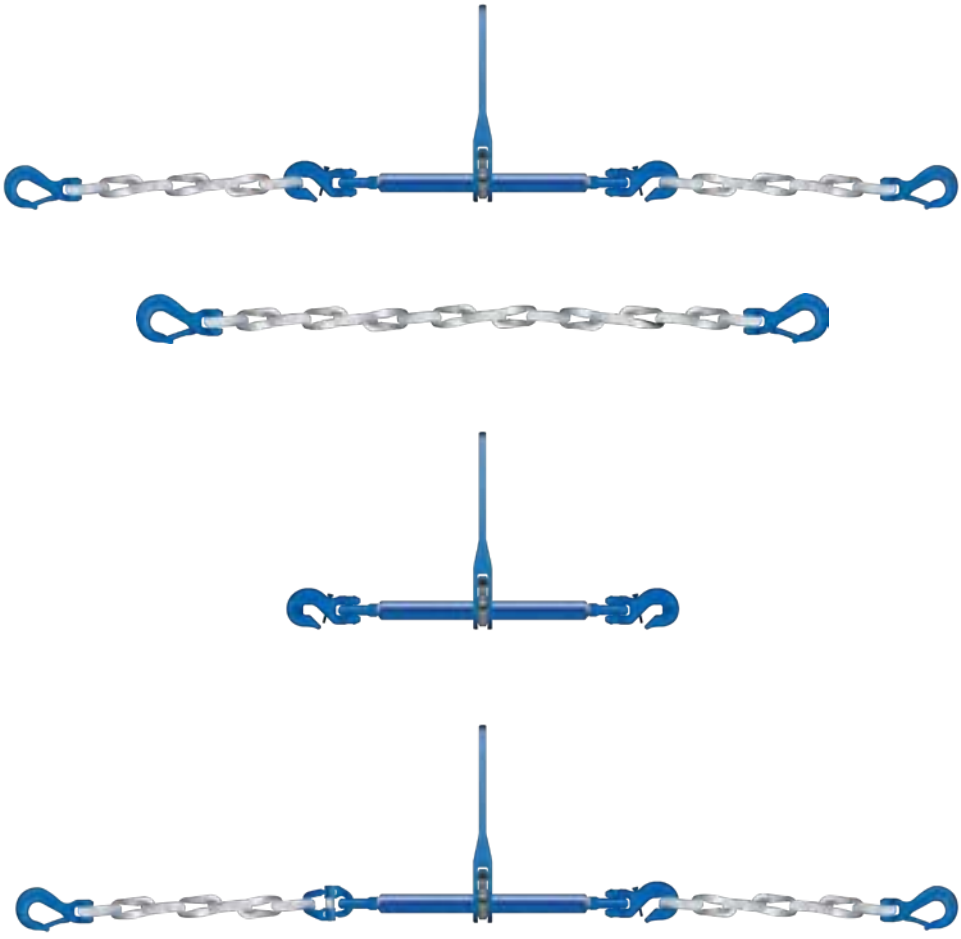
- all markings are legible;
- a loadbinder and/or fitting with the correct Lashing Capacity has been selected. For further details we refer to EN 12195-3, standard for Lashing Chains;
- loadbinders, lashing chain and fittings should never be used for lifting or hoisting applications;
- the loadbinder 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

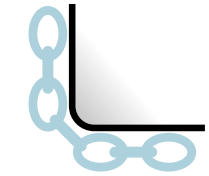
Connect Green Pin Tycan® lashing chain to Green Pin Tycan® lashing sling fittings or to certified components with a maximum surface roughness of 5 microns and adhering to below values:

link size	lashing capacity	minimum pin diameter	minimum clevis width	maximum clevis width
mm	t	mm	mm	mm
15x25	10	16	26	31
13x30	13.6	20	31	37
15x40	20.6	24	41	48

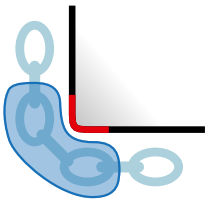
Configuration examples



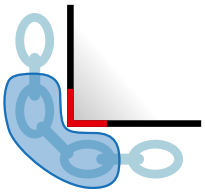
In case of contact between Green Pin Tycan® Lashing Chain and the load or operating material, protective sleeves must be used when the surface edge is 'less' than 6 mm radius.



Edge radius more than 6 mm;
No protective sleeve
required **but** recommended.



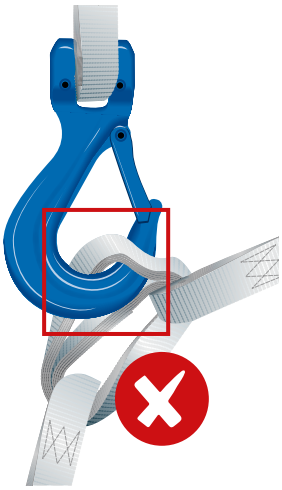
Edge radius less than 6 mm;
Protective sleeve **required**.



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

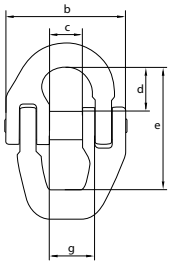
Grade 10 connecting link

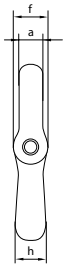
Scan for additional product details

- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [a] MPI [b] CE IIB
- **Article code:** scan QR code to see article codes



UMJT





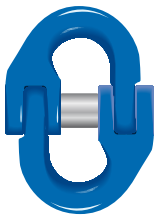
for chain size	lashing capacity	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	diameter	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
13x30	13.6	16	83	21	32	87	24	28	20	0.78
15x40	20.6	19	103	25.5	40	107.5	28	34	24	1.46

CAD

Green Pin® Connecting Link GR10

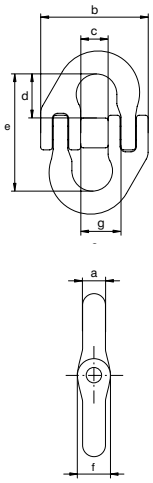
Grade 10 connecting link

Scan for additional product details



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
15x25	13.6	16	83	21	32	85	24	28	0.68

CAD INFO

Scan for additional product details

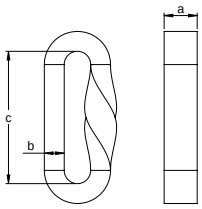
Green Pin Tycan® Lashing Chain

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:** -60 °C to +70 °C
- **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 meter	elongation at MBL	weight per meter	layers
mm	t	a mm	b mm	c mm		%	kg	
15x25	10	25	15	100	10	5	0.6	8
13x30	13.6	30	13	125	8	5	0.9	7
15x40	20.6	40	15	175	6	5	1.12	7

CAD INFO

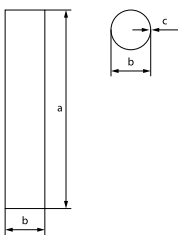
Green Pin Tycan® Sleeve

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
mm	a mm	b mm	c mm	kg
15x25	500	60	1	0.04
13x30	500	65	1	0.06
15x40	500	75	1	0.10

INFO



Scan for additional product details

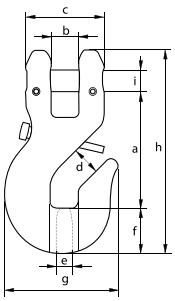
Green Pin Tycan® Grab Hook CL GR10

Grade 10 clevis grab hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL and MBL equals 2 x Lashing Capacity
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
15x25	10	102	24	68	25	16	40	99	178	20	2.12
13x30	13.6	100	32	74	30	20	40	102	177	20	1.94
15x40	20.6	128	42	96	40	24	44.7	127	216.5	24	3.37

CAD INFO

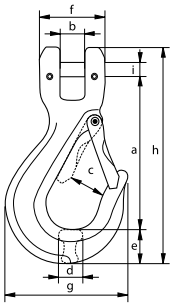
Green Pin Tycan® Sling Hook CL GR10

Grade 10 clevis sling hook



- **Material:** alloy steel, grade 10, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** follows the EN1677 with grade 10 values and conforms to ASTM A952/A952M
- **Finish:** painted blue
- **Temperature range:** -40 °C up to +200 °C
- **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



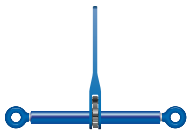
for chain size	lashing capacity	length	width	width opening	thickness	width	width outside	width outside	length outside	diameter pin	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
15x25	10	150	24	37	29	35	68	123	220	20	2.15
13x30	13.6	159	32	37	32	39	74	133	235	20	2.56
15x40	20.6	185	42	45	40	43	96	165	271	24	4.25

CAD INFO

Scan for additional product details

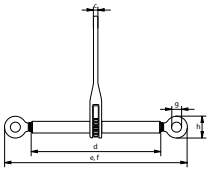
Green Pin Tycan® Ratchet Loadbinder GR10

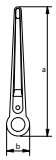
Grade 10 ratchet type loadbinder



- **Material:** drop forged, grade 10
- **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



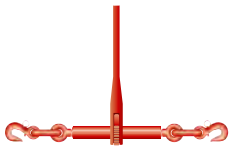


chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	mm	t	t	t	kg
15x25	387	65	15	410	858	558	30	64	300	16	20	32	5.17
13x30	387	65	15	410	858	558	30	64	300	16	20	32	5.17

CAD

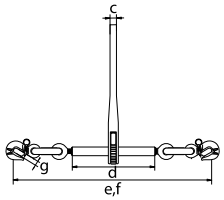
Green Pin® Ratchet Loadbinder HK EN 12195-3

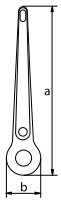
Ratchet type loadbinder with hooks according to EN 12195-3



- **Material:** drop forged, grade 8
- **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
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	mm	t	t	t	kg
8	387	65	15	255	735	575	11	160	4	5	8	4.86
10	387	65	15	255	760	595	13	165	6.3	7.9	12.6	5.12
13	387	65	15	260	840	690	16	150	10	12.5	21.2	7.65
16	387	65	15	260	840	690	19	150	16	20	32.2	9.68

Scan for additional product details

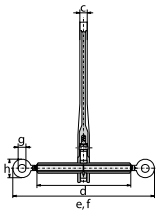
Green Pin® Ratchet Loadbinder EN 12195-3

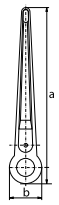
Ratchet type loadbinder without hooks according to EN 12195-3

- **Material:** drop forged, grade 8
- **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-7190



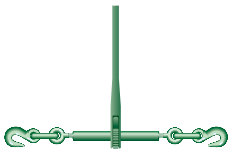


chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	mm	t	t	t	kg
8	387	65	15	255	534	374	18	50	160	4	5	8	3.31
10	387	65	15	255	543	379	20	55	164	6.3	7.9	12.6	3.51
13	387	65	15	260	564	414	26	66	150	10	12.5	21.2	3.96
16	387	65	15	260	564	420	30	71	144	16	20	32.2	4.11

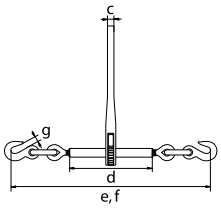
Green Pin® Ratchet Loadbinder HK

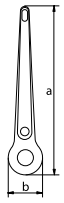
Ratchet type loadbinder with hooks

- **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-7130



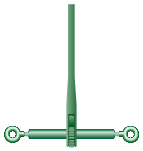


chain size	length handle	diameter	thickness	length barrel	length open position	length closed position	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	mm	t	t	t	kg
8 - 10	385	65	15	255	735	575	12	160	2.45	4.9	8.62	4.82
10 - 13	385	65	15	255	760	595	16	165	4.17	8.35	14.97	5.81
13 - 16	385	65	15	260	840	690	18	150	5.9	11.8	20.86	7.05

Scan for additional product details

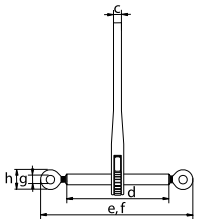
Green Pin® Ratchet Loadbinder

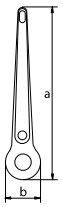
Ratchet type loadbinder without hooks



P-7150

- **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	diameter eye inside	diameter eye outside	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	mm	t	t	t	kg
8 - 10	385	65	15	255	534	374	18	50	160	2.45	4.9	8.62	3.27
10 - 13	385	65	15	255	543	379	20	55	164	4.17	8.35	14.97	3.45
13 - 16	385	65	15	260	564	412	26	66	152	5.9	11.8	20.86	3.84

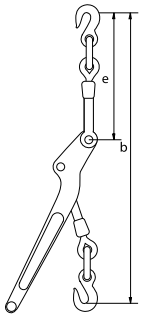
Green Pin® Lever Loadbinder HK

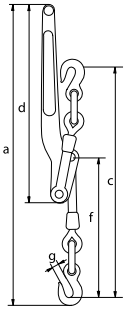
Lever type loadbinder with hooks



P-7110

- **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



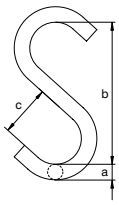


chain size	length	length open position	length closed position	length handle	length	length	width	take-up	lashing capacity	proof load	minimum breaking load	weight each
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	mm	t	t	t	kg
8 - 10	610	592	488	408	287	287	12	104	2.45	4.9	8.62	3.65
10 - 13	768	680	550	458	325	325	16	130	4.17	8.35	14.97	5.08

C



S



S-Hook

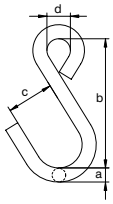
- **Material:** high tensile steel
- **Safety factor:** MBL equals 4 x LC
- **Finish:** painted red
- **Certification:** 2.1 2.2
- **Note:** not designed for lifting

lashing capacity	diameter	length	width	weight each
t	a mm	b mm	c mm	kg
0.2	10	80	30	0.11
0.3	13	100	40	0.24
0.5	16	130	50	0.47
0.75	18	160	60	0.80
1	20	180	65	1.02
1.2	22	200	70	1.40
1.5	24	220	80	1.95
2	32	260	90	3.50
3	36	320	100	5.16
4	40	360	115	7.48
5	45	400	130	10.8
6	51	450	150	16.2

C



SO



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

lashing capacity	diameter	length	width	width inside	weight each
t	a mm	b mm	c mm	d mm	kg
0.2	10	80	30	16	0.11
0.3	13	100	40	21	0.25
0.5	16	130	50	25	0.48
0.75	18	160	60	34	0.76
1	20	180	65	44	1.07
1.2	22	200	70	40	1.40
1.5	24	220	80	40	1.79
2	32	260	90	50	3.80
3	36	320	100	52	5.35

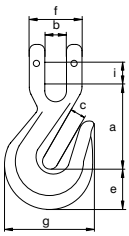
C

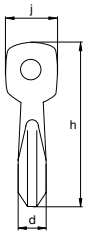
Clevis lashing hook



- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 2 x LC
- **Finish:** painted red
- **Certification:** 2.1 2.2
- **Note:** not designed for lifting

CAC





for chain diameter	lashing capacity	length	width	width	thickness	width	width outside	width outside	length outside	diameter pin	width outside	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
8	4	65	10	10	16	23	38	56	107	9	19	0.34
10	6.3	82	12	13	25	31	46	75	136	12	27	0.85
13	10	113	16	16	30	43	61	102	185	16	36	1.98
16	16	130	20	19	38	49	69	118	215	20	40	2.95
18/20	25	152	24	24	40	58	88	142	254	22	44	5.12

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 150 mm. 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
• 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

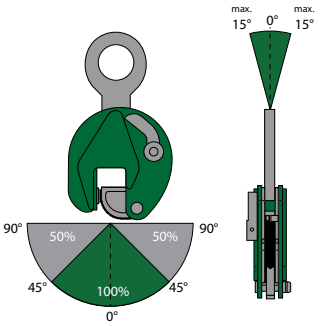
Lifting clamps should be inspected before use to ensure that:
- all markings are legible;
- a clamp with the correct WLL has been selected;
- always make sure that the clamp is supporting the load correctly;
- the WLL should be applied in-line;
- overloads are not permitted;
- the locking lever or any 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.

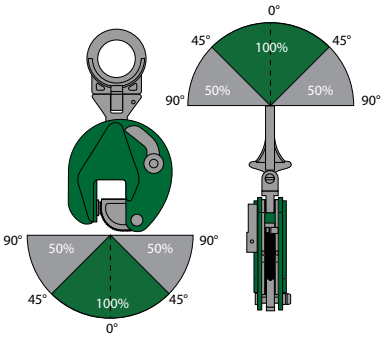
Lifting clamps P-6615 and P-6616

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.



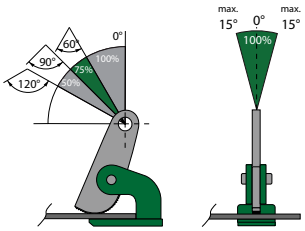
Lifting clamps P-6625 and P-6626

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.



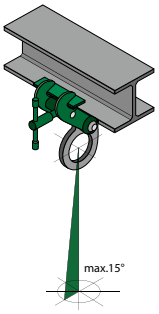
Lifting clamps P-6635 and P-6636, 100% WLL

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

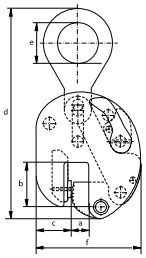
Green Pin® Lifting Clamp V-type

Plate clamp for lifting and vertical transportation

- **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 °C up to +100 °C
- **Certification:** 2.1 2.2 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes



P-6615





type	working load limit	width opening	length opening	width	length	diameter inside eye	width	thickness	thickness	weight each
	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.75 V	0.75	0-13	47	37	202	30	100	37	10	1.70
1 V	1	0-25	56	37	263	45	141	47	15	3.50
2 V	2	0-35	78	56	336	64	183	56	16	7
3 V	3	0-35	78	56	336	64	183	56	16	7
4.5 V	4.5	0-45	85	60	425	70	228	78	20	16
6 V	6	0-50	114	82	490	75	259	78	20	21
7.5 V	7.5	0-55	111	70	522	75	267	86	20	26
9 V	9	0-55	111	70	522	75	267	86	20	27
12 V	12	0-52	148	100	617	85	295	94	20	37
15 V	15	0-76	209	136	810	86	373	106	25	70
20 V	20	0-80	250	153	933	100	563	140	30	149

CAD INFO

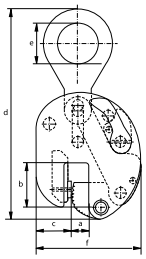
Green Pin BigMouth® Lifting Clamp V-type

Plate clamp with enlarged opening for lifting and vertical 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 °C up to +100 °C
- **Certification:** 2.1 2.2 MTC [a] CE IIA
- **Article code:** scan QR code to see article codes



P-6616





type	working load limit	width opening	length opening	width	length	diameter inside eye	width	thickness	thickness	weight each
	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
6 VE	6	40-90	114	70	486	75	275	78	20	21
7.5 VE	7.5	50-100	111	70	524	75	312	86	20	26.5
9 VE	9	50-100	111	70	522	75	312	86	20	27.5
12 VE	12	50-100	152	100	615	85	344	94	20	41
15 VE	15	80-150	224	136	800	86	450	106	25	76
20 VE	20	80-150	249	153	924	100	640	140	30	160

CAD INFO

Scan for additional product details

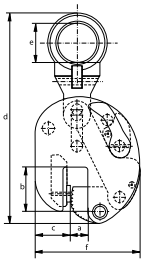
Green Pin® Lifting Clamp U-type

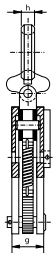
Universal plate clamp for lifting and transportation in all directions

- **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 °C up to +100 °C
- **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
	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.75 U	0.75	0-13	47	37	203	30	100	37	10	1.80
2 U	2	0-35	78	56	372	70	183	56	16	8
3 U	3	0-35	78	56	372	70	183	56	16	8
6 U	6	0-50	114	82	527	78	259	78	32	24
7.5 U	7.5	0-55	111	70	560	78	267	86	32	28
9 U	9	0-55	111	70	560	78	267	86	32	29
12 U	12	0-52	148	100	648	85	295	94	48	41

CAD INFO

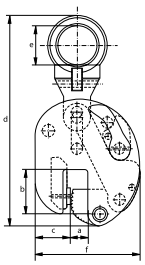
Green Pin BigMouth® Lifting Clamp U-type

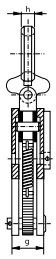
Universal plate clamp for transportation in all directions and with enlarged opening

- **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 °C up to +100 °C
- **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
	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
6 UE	6	40-90	114	70	523	78	275	78	32	24
7.5 UE	7.5	50-100	111	70	560	78	312	86	32	30
9 UE	9	50-100	111	70	560	78	312	86	32	31
12 UE	12	50-100	152	100	644	85	344	94	48	45

CAD INFO

Scan for additional product details

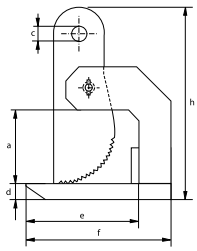
Green Pin® Lifting Clamp H-Type

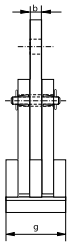
Plate clamp for horizontal transportation



- **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 °C up to +100 °C
- **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
	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
2 H	2	0-60	16	30	15	118	180	90	287	7
3 H	3	0-60	16	30	20	118	180	90	291	8
4 H	4	0-60	20	30	25	145	220	105	304	13
6 H	6	0-60	20	30	25	145	220	110	307	14
8 H	8	0-60	30	30	35	135	225	120	336	19
10 H	10	0-60	30	30	35	135	225	120	336	19
15 H	15	0-60	35	43	35	147	262	160	344	30
25 H	25	0-60	35	43	40	147	262	175	349	33

CAD INFO

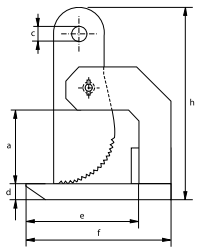
Green Pin BigMouth® Lifting Clamp H-type

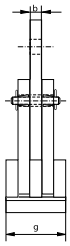
Plate clamp with an enlarged opening for horizontal transportation



- **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 °C up to +100 °C
- **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
	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
3 HE	3	0-100	15	30	20	120	180	90	387	10
4 HE	4	0-100	20	30	25	145	220	105	414	15
6 HE	6	0-100	20	30	25	145	220	120	414	16.5
8 HE	8	0-100	30	30	35	135	225	120	428	21
10 HE	10	0-100	30	30	35	135	225	120	428	22
15 HE	15	0-150	35	45	35	240	350	140	665	53

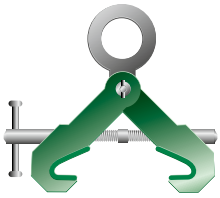
CAD INFO

Green Pin® Beam Lifting Clamp H-type

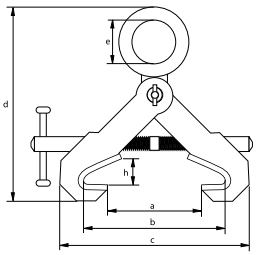
Clamp for horizontal lifting and transportation of steel beams

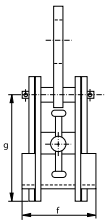
Scan for additional product details

- **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 °C up to +100 °C
- **Certification:** 2.1 2.2 MTC[a] 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
	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
2 B	2	0-130	75-190	357	345	73	120	113-192	30	5
3 B	3	0-130	75-190	357	345	73	120	113-192	30	5
4 B	4	0-220	150-300	450	422	80	180	185-240	40	15
5 B	5	0-220	150-300	450	422	80	180	185-240	40	15
10 B	10	0-190	350-450	695	653	88	200	400-447	95	50

CAD INFO

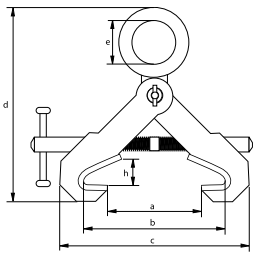
Green Pin BigMouth® Beam Lifting Clamp H-type

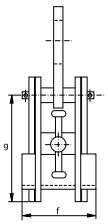
Clamp with enlarged opening for horizontal lifting and transportation of steel beams

- **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 °C up to +100 °C
- **Certification:** 2.1 2.2 MTC[a] 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
	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
2 BE	2	0-350	75-420	540	428	73	120	114-275	30	7
3 BE	3	0-350	75-420	540	428	73	120	114-275	30	7
4 BE	4	0-470	150-560	708	545	80	180	173-362	40	18
5 BE	5	0-470	150-560	708	545	80	180	173-362	40	19.5

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.

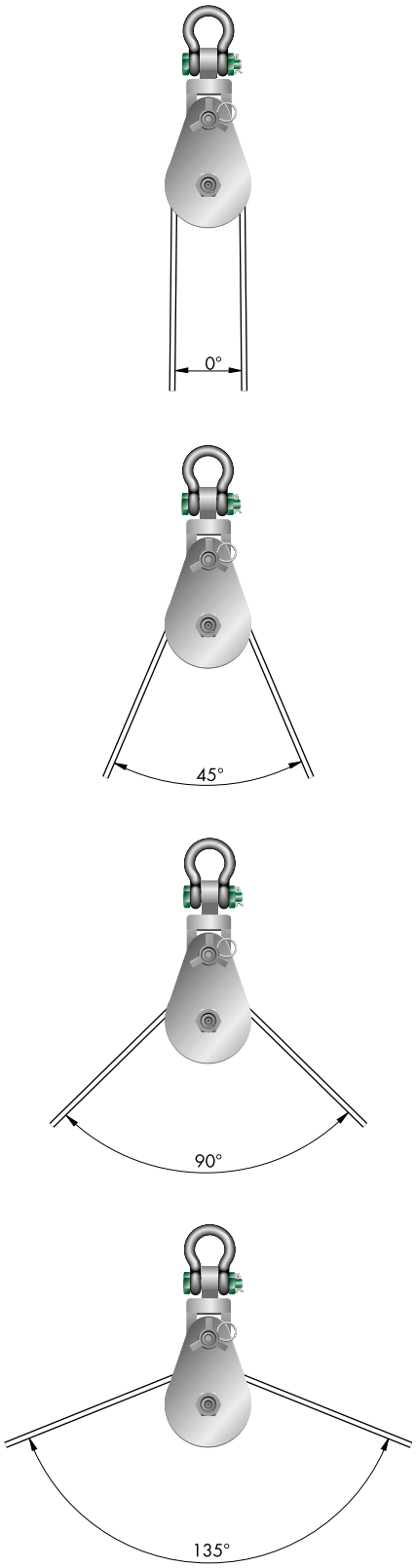
Loads on blocks

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

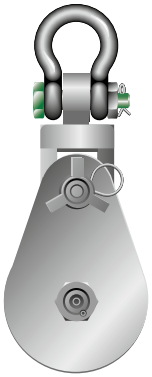
Figure 1



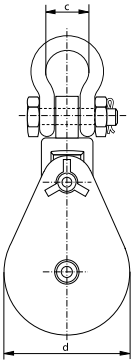
Green Pin® Snatch Block S

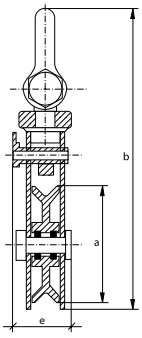
Snatch block type 601S with Green Pin® Shackle attached

Scan for additional product details



P-6951





- **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	width	width outside	thickness	weight each
t	mm	a mm	b mm	c mm	d mm	e mm	kg
2	7 - 9	75	291	43	82	87	3.87
4	10 - 12	115	363	58	120	89	6.36
4	12 - 14	150	417	58	160	89	8.39
8	20 - 22	150	478	68	160	119	14.1
8	14 - 16	150	478	68	160	119	14.3
12	20 - 22	150	551	83	160	119	20
12	14 - 16	150	551	83	160	119	20
15	24 - 26	150	585	92	160	138	24
4	10 - 12	200	478	58	210	119	11
8	20 - 22	200	527	68	210	119	18
12	20 - 22	200	580	83	210	125	28
12	14 - 16	200	580	83	210	125	27
15	24 - 26	200	646	92	210	142	30
8	20 - 22	250	581	68	260	104	26
8	14 - 16	250	581	68	260	104	26
12	20 - 22	250	679	83	260	125	35
15	24 - 26	250	705	92	260	146	42
8	20 - 22	300	646	68	310	106	31
12	20 - 22	300	748	83	310	146	35
15	24 - 26	300	771	92	310	142	33
8	20 - 22	350	691	68	360	119	31
12	20 - 22	350	773	83	360	145	35
15	24 - 26	350	798	92	365	171	63
22	28 - 32	350	950	126	365	180	94
8	20 - 22	400	756	68	415	119	35
12	20 - 22	400	822	83	415	170	67
15	24 - 26	400	848	92	415	170	39
22	28 - 32	405	1007	126	415	180	139
30	32 - 38	405	1076	138	415	210	124
8	20 - 22	450	817	68	465	119	42
12	20 - 22	450	877	83	465	170	75
15	24 - 26	450	898	92	465	170	44.5
22	28 - 32	450	1057	126	465	180	154
30	28 - 32	450	1101	138	465	210	218
32	28 - 35	399	1361	138	409	193	140
32	28 - 38	450	1444	138	470	193	161
32	28 - 38	495	1511	138	511	193	170
36	28 - 38	495	1575	160	511	203	228
32	28 - 32	594	1669	138	610	193	170
54	38 - 51	594	1861	180	610	269	348
75	44 - 51	594	2105	190	610	266	391
75	44 - 57	749	2442	190	770	266	636
100	64 - 67	800	2681	238	820	260	838
125	70 - 76	889	2898	275	919	260	1158

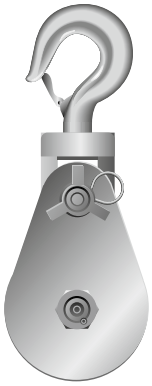
CAD

Green Pin® Snatch Block HK

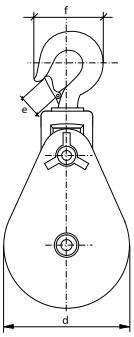
Snatch block type 601H with hook attached

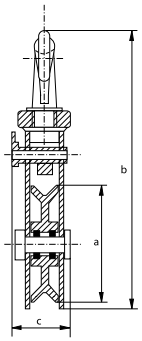
Scan for additional product details

- **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-6952





working load limit	diameter wire rope	diameter outside sheave	length	thickness	width outside	opening hook	width outside	weight each
t	mm	a mm	b mm	c mm	d mm	e mm	f mm	kg
2	7 - 9	75	290	87	82	30	108	3.68
4	10 - 12	115	358	89	120	43	132	6
4	12 - 14	150	412	89	160	43	132	8.50
8	20 - 22	150	502	119	160	45	165	11.8
12	20 - 22	150	616	119	160	71	226	20.5
15	24 - 26	150	626	138	160	71	226	23.4
4	10 - 12	200	473	91	210	43	132	8
8	20 - 22	200	551	119	210	45	165	20.4
12	20 - 22	200	641	129	210	71	226	30
15	24 - 26	200	663	142	210	71	226	29.5
8	20 - 22	250	606	103	260	45	165	25.4
12	20 - 22	250	728	125	260	71	226	35.5
15	24 - 26	250	745	166	260	71	226	41
8	20 - 22	300	671	119	310	45	165	32
12	20 - 22	300	810	166	310	71	226	50
15	24 - 26	300	810	166	310	71	226	52
8	20 - 22	350	716	119	360	45	165	38
12	20 - 22	350	835	166	360	71	226	59
15	24 - 26	350	837	166	360	71	226	58.5
8	20 - 22	400	780	119	415	45	165	48
12	20 - 22	400	888	166	415	71	226	36
15	24 - 26	400	890	166	415	71	226	68.5
8	20 - 22	450	841	119	465	45	165	58
12	20 - 22	450	942	166	465	71	226	42
15	24 - 26	450	942	166	465	71	226	82

CAD

Green Pin® Snatch Block

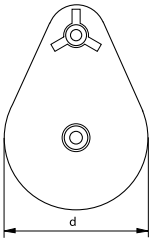
Snatch block type 601T

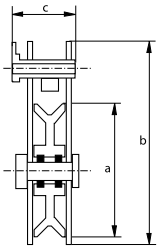
Scan for additional product details

- **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
t	mm	a mm	b mm	c mm	d mm	kg
4	10 - 12	115	189	80	120	4
8	20 - 22	150	268	105	160	9.50
8	20 - 22	200	322	105	210	12
8	20 - 22	254	377	105	260	18

CAD


CE
0158
EN 12278

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:

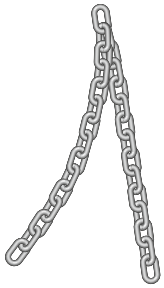
- the item should not be used for lifting – general hardware items are not suitable for lifting applications;
- never modify, repair or reshape an item by machining, welding, heating or bending, as this may affect its performance.

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.

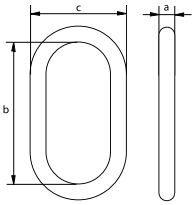
C

Short link chain

Generally to DIN 766 and DIN 5685-3, commercial quality



E-7661
G-7662



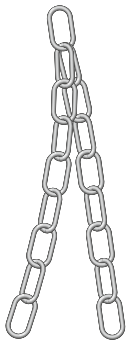
- **Material:** mild steel, grade 3
- **Standard:** generally to DIN 766 and DIN 5685-3
- **Finish:** electro-galvanized (E) or hot dipped galvanized (G)
- **Certification:** 2.1
- **Note:** not to be used for lifting applications!

diameter	length inside	width outside	weight per meter
a mm	b mm	c mm	kg
3	16	11	0.17
4	16	14	0.32
5	18.5	17	0.50
6	18.5	20	0.75
7	22	23	1
8	24	26	1.35
9	27	30	1.80
10	28	34	2.25
11	31	36	2.70
13	36	44	3.80
16	45	54	5.80
18	50	60	7.30

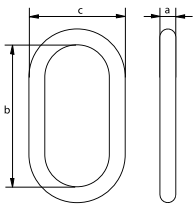
C

Long link chain

Generally to DIN 763 and DIN 5685-1, commercial quality



E-7631
G-7632

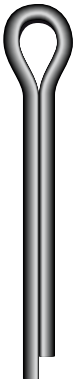


- **Material:** mild steel, grade 3
- **Standard:** generally to DIN 763 and DIN 5685-1
- **Finish:** electro-galvanized (E) or hot dipped galvanized (G)
- **Certification:** 2.1
- **Note:** not to be used for lifting applications!

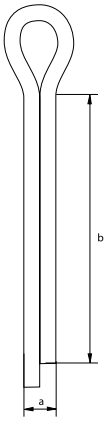
diameter	length inside	width outside	weight per meter
a mm	b mm	c mm	kg
3	26	13	0.14
4	32	16	0.27
5	36	20	0.43
6	42	24	0.63
7	48	28	0.86
8	54	32	1.10
10	66	40	1.75
13	82	50	2.95
16	100	60	4.45

C

Split pins



E-7950



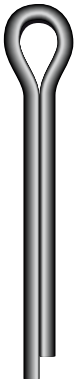
- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1

diameter	length	weight per 100 pcs
a mm	b mm	kg
2.5	20	0.08
4	32	0.30
5	36	0.60
6.3	45	1.20
8	63	2.80
8	80	4.40
8	100	4.40
8	125	5.50
8	150	6.60
10	71	5
10	90	6
10	100	6.60
10	120	4.40
12	140	7
12	160	7
13	110	12.1
16	160	16
16	200	20
20	230	30
20	280	17.6

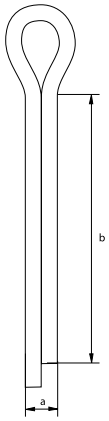
continued on next page >

Split pins (continued)

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



E-7950

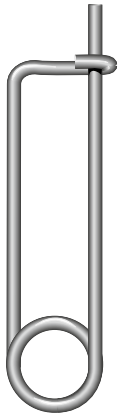


split pins	for shackle									
	G-4163 G-4143	G-4153 G-4133	P-6036 P-6016 ≤150	P-6038 P-6018	P-6033 P-6013 ≤150	G-5263 G-5243	G-5163 G-5143	P-6031 P-6011 ≤150	G-4263 G-4243	G-4553
a x b mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2.5 x 20	0.5									
	0.75									
	1									
	1.5									
4 x 32	2	2				3.3	2			
	3.25	3.25				5	3.25			
5 x 36	4.75	4.75			7	7	4.75		4.75	4.6
	6.5	6.5				9.5	6.5			
6 x 45	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	
8 x 63	13.5	13.5				21	13.5		12	15.5
	17	17				30	17		16	
8 x 80					30					
					40					
10 x 71	25	25				40	25		25	
	35	35				55	35		30	
10 x 90	42.5	42.5				85	42.5		55	
	55	55					55			
10 x 100	85	85			55	120	85		75	
					75					
10 x 120					125					
12 x 140					150					
					200					
12 x 160					250					
					300					
13 x 110			120	120		150		120		
			150			175		150		
16 x 160			200					200		
			250					250		
			300					300		
16 x 200			400		400			400		
			500		500			500		
20 x 230			600		600			600		
			700					700		
			800					800		
20 x 280			900					900		
			1000					1000		

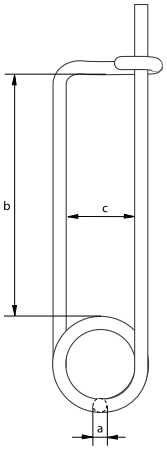
C

Safety Pin

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



E-7945



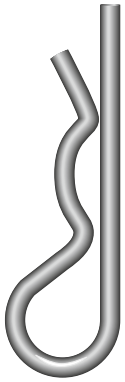
diameter	length inside	width inside	weight per 100 pcs
a mm	b mm	c mm	kg
3	116	24	2.50
3	147	24	2.80

safety pin	for shackle
	P-5367
a x b mm	WLL t
3x116	12 - 55
3x147	85
	120
	150

C

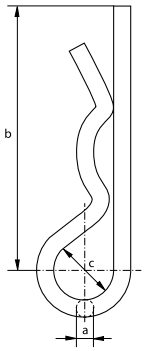
Spring pins, single type

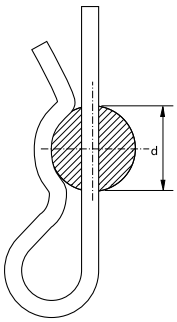
- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1



diameter	length	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
2	50	10	9 - 14	0.30
3	60	18	10 - 16	0.90
4	60	20	16 - 20	1.60
5	85	24	20 - 28	3.30
6	105	30	28 - 40	6.20
7	105	30	28 - 45	8.30
8	110	28	30 - 45	10.5

E-7930



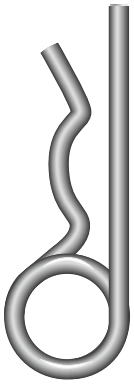


spring pin	for shackle						
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553
a x b mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2 x 50	2	2		3.3	2		
3 x 60	3.25	3.25		5	3.25		
4 x 60	4.75	4.75	7	7	4.75	4.75	4.6
	6.5	6.5		9.5	6.5		
5 x 85	8.5	8.5	12.5	12.5	8.5	6.5	8.6
	9.5	9.5	18	15	9.5	8.5	
	12	12		18	12	9.5	
6 x 105	13.5	13.5		21	13.5	12	15.5
	17	17		30	17	16	
7 x 105	25	25	30	40	25	25	
			40				

C

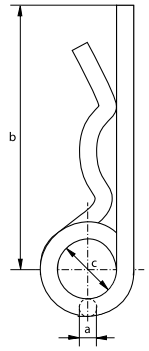
Spring pins, double type

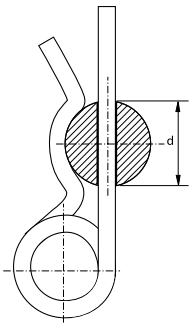
- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1



E-7931

diameter	length	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
2	38	10	08 - 14	0.40
3	62	16	14 - 20	1.40
4	78	23	17 - 24	3
5	92	26	18 - 30	5.30
6	120	30	24 - 36	9.60
7	130	30	24 - 40	13.5
7	150	30	45 - 56	13.5
8	130	30	24 - 45	17.8

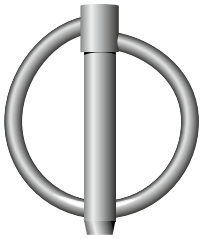




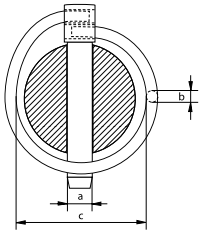
spring pin	for shackle									
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553	P-5361D/F	P-5363	P-5365
a x b mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2 x 38	2	2		3.3	2					
3 x 62	3.25	3.25		5	3.25			6.5		6.5 ~ 12
4 x 78	4.75	4.75	7	7	4.75	4.75	4.6		6.5	17
	6.5	6.5		9.5	6.5					25
	8.5	8.5		12.5	8.5					35
5 x 92	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				
6 x 120	13.5	13.5		21	13.5	12	15.5	12	17	
	17	17		30	17	16		17		
								25		
7 x 150	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	
8 x 130	25	25	30	40	25	25		35	25	
			40							

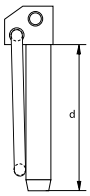
Linch pins

With round spring ring



E-7940





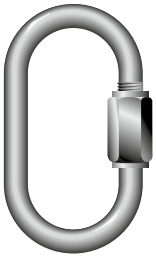
- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1

diameter pin	diameter spring ring	width inside spring ring	length pin	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
4.5	2	41	42	2
6	3.4	41	42	2.80
7	3.4	41	42	3
8	3.4	41	42	3.50
9	3.4	41	42	3.80
10	3.4	41	42	4.40
11	3.4	41	42	4.60

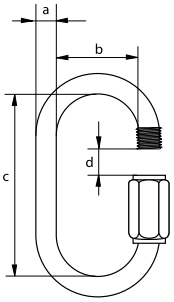
linch pin	for shackle						
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553
diameter mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
4.5	4.75	4.75	7	7	4.75	4.75	4.6
	6.5	6.5		9.5	6.5	6.5	8.6
	8.5	8.5		12.5	8.5	8.5	
6	9.5	9.5	12.5	15	9.5	9.5	
	12	12	18	18	12		
8	13.5	13.5	30	21	13.5	12	15.5
	17	17		30	17	16	

C

Quick links, standard type



E-7300

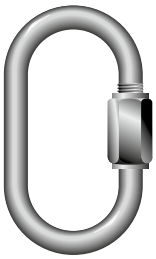


- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1

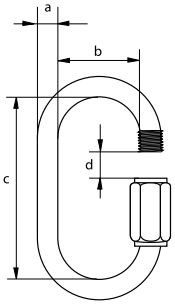
diameter	width inside	length inside	opening	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
3.5	10	29	5	240	0.90
4	11	32	5	300	1.30
5	13	39	6	540	2
6	14	46	7	750	3.30
7	16	51	8	1125	5.30
8	17	59	10	1500	7.50
9	17	64	11	2000	10.3
10	20	70	12	2400	13
12	23	83	14	3600	25
14	26	97	17	5000	35
16	29	112	20	6000	50

C

Quick links, with enlarged opening



E-7310



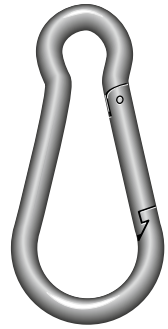
- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1

diameter	width inside	length inside	opening	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
4	12	45	11	800	1.40
5	14	52	13	1250	2.50
6	16	58	14	1750	4.20
7	17	65	16	2500	6.70
8	19	73	17	3250	9.40
9	20	79	19	4000	13.1
10	22	88	20	5000	17.5
12	25	102	23	6250	28.2
14	28	114	26	10000	45.6
16	31	129	29	12500	60.7

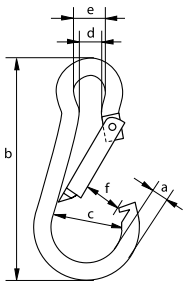
C

Carabine hooks, standard type

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



E-7200

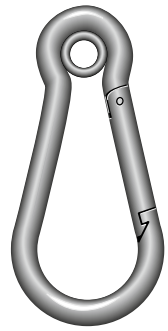


diameter	length	width	width inside	width inside	width opening	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	f mm	kg	kg
4	40	14	5	7	6	-	0.60
5	50	16	7	8	6	100	0.80
6	60	18	7	9	7	120	2.40
7	70	22	9	10	8	180	2.60
8	80	24	11	12	9	300	4.40
9	90	26	11	12	10	330	6.40
10	100	30	12	15	11	460	12.1
11	120	36	14	18	15	600	12.5
12	140	40	16	20	19	680	24.7
13	160	44	20	22	24	800	25
14	180	48	20	22	28	860	35
15	200	60	20	22	35	1370	57.2

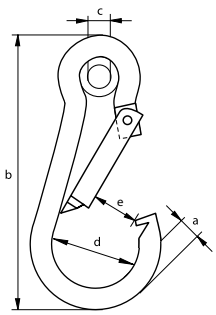
C

Carabine hooks, with pressed thimble

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



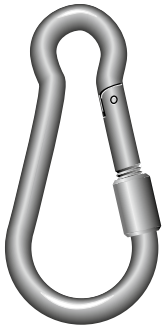
E-7210



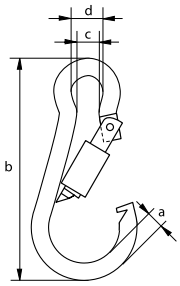
diameter	length	diameter inside thimble	width	width opening	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	kg	kg
4	40	4	14	6	-	0.80
5	50	5	16	6	100	1.60
6	60	6	18	7	120	2.60
7	70	7	22	8	180	4.40
8	80	10	24	9	300	6.40
9	90	12	26	10	330	9.30
10	100	13	30	11	460	12.5
11	120	13	36	15	600	19.5
12	140	15	40	19	680	25
13	160	17	44	24	800	35
14	180	17	48	28	860	50

C

Carabine hooks, with screw nut



E-7220



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

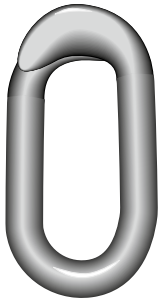
diameter	length	width inside	width inside	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
4	40	4	7	-	1.70
5	50	5	7	100	1.90
6	60	6	8	120	2.70
7	70	7	10	180	4.50
8	80	10	12	300	6.50
9	90	12	12	330	10.3
10	100	13	15	460	13.4
11	120	13	16	600	19
12	140	15	19	680	26.5
13	160	17	28	800	37
14	180	17	28	860	52

C

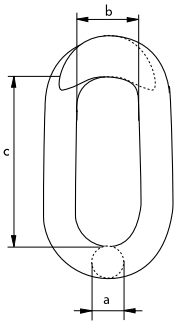
Chain repair links

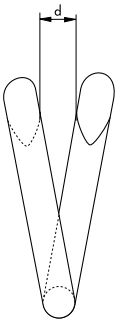
Commercial quality

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



E-7910





diameter	width inside	length inside	opening	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
3	6.5	16.5	4	0.40
4	8	20	5.5	0.80
4.5	9	22	6	1.10
5	9.5	23	6	1.20
5.5	10.5	26	6	1.80
6	10.5	29	7	2.10
6.5	11.5	30	8	3.20
7	13.5	32	8.5	3.90
8	15	37	9	5.60
9	16.5	37.5	9	7.60
10	17	37.5	9	9.50
12	25	50	12	10

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

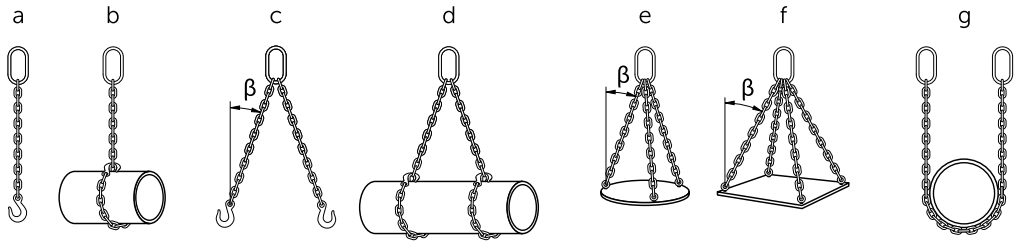
This table offers a general guideline only. The material must always be tested for your specific conditions.

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



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

Working Load Limit table for stainless steel chain slings

Chain Ø	90°	β	β β	Endless Sling
	1 leg sling	2 leg sling		3 or 4 leg sling		Endless Sling
	90°	0°<ß ≤ 45°	45°<ß ≤ 60°	0°<ß ≤ 45°	45°<ß ≤ 60°	
		Safety factor 1.4	Safety factor 1.0	Safety factor 2.1	Safety factor 1.5	Safety factor 1.6
mm	t	t	t	t	t	t
6	0.70	1.00	0.70	1.47	1.05	1.12
8	1.20	1.70	1.20	2.50	1.80	1.92
10	1.60	2.25	1.60	3.36	2.40	2.56
13	2.70	3.80	2.70	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 above 30° 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	2x35mm	0.75	1.5	0.75	1.5	1.05	0.75	0.75	1.575	1.125	0.75
	GPPAS1.25I	a9 z13	2x42mm	1.25	2.5	1.25	2.5	1.75	1.25	1.25	2.625	1.875	1.25
	GPPAS3.20I	a11 z16	2x49mm	3.2	6.4	3.2	6.4	4.48	3.2	3.2	6.72	4.8	3.2
	GPPAS5I	a14 z20	2x64mm	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

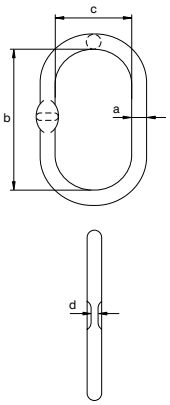
Grade 5 stainless steel master link

Scan for additional product details



- **Material:** Duplex 1.4462, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** blasted
- **Temperature range:** -40 °C up to +200 °C
- **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		ß ≤ 45°	45° < ß ≤ 60°		b	c	d	
mm	mm	mm	mm	t	mm	mm	mm	kg
13	6	-	6	1	110	60	6.5	0.34
16	8	6	8	1.25	110	60	6.5	0.53
18	10	8	10	2	135	75	8.5	0.82
22	13	10	13	3.2	160	90	10.5	1.45
26	16	13	16	5	180	100	13	2.29

CAD

Green Pin® Master Link Assembly S/S-GR5

Grade 5 stainless steel master link assembly

Scan for additional product details

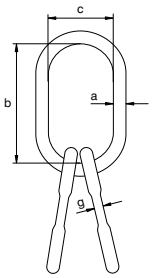


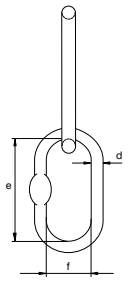
MTSI

- **Material:** Duplex 1.4462, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** blasted
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 MTC [b] CE IIB
- **Article code:** scan QR code to see article codes

diameter	diameter chain 3-4 legs		working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a	ß ≤ 45°	45° < ß ≤ 60°		b	c	d	e	f	g	
mm	mm	mm	t	mm	mm	mm	mm	mm	mm	kg
18	6	6	1.6	135	75	13	54	25	6.5	1.17
22	8	8	2.65	160	90	16	70	34	8.5	2.17
26	10	10	4.25	180	100	18	85	40	8.5	3.34
32	13	13	6.7	200	110	22	115	50	13.5	5.99

CAD





Scan for additional product details

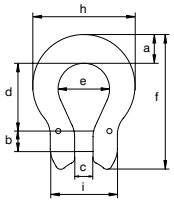
Green Pin® Omega Link S/S-GR5

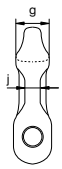
Grade 5 stainless steel omega link



- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pin available for 5 mm hoist chain on request, which can be combined with GPCO6I

COI





for chain diameter	working load limit	width	diameter pin	width	length inside	width bow	length outside	thickness	width outside	width outside	thickness	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	0.7	13.5	8	7	25	20	53	13	41	28	6	0.07
7/8	1.2	19.5	9	9	34	24	71	16	55	32	8.5	0.18
10	1.6	19	13	12	40	31	82	17	63	42	11	0.28
13	2.7	25	16	15	51	40	106	20	84	54	13.5	0.64

CAD INFO

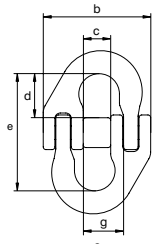
Green Pin® Connecting Link S/S-GR5

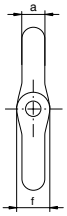
Grade 5 stainless steel connecting link



- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 CE IIB
- **Article code:** scan QR code to see article codes

MJI





for chain diameter	working load limit	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	0.7	8	42	10.5	20	52	10.5	15	0.09
7/8	1.2	9	53	14	20.5	55	13	19.5	0.15
10	1.6	13	66	18	23.5	64	18	23.5	0.28
13	2.7	18	83	21	32	85	23.5	28	0.64

CAD INFO

Green Pin® Grab Hook E S/S-GR5

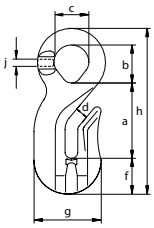
Grade 5 stainless steel eye grab hook

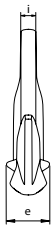
Scan for additional product details

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	0.7	41	24	23.5	8	24	19.5	42	94	9	6	0.24
7/8	1.2	53	27	27	10	33	23	53	115	12	8	0.32
10	1.6	65	38	36	12	42	29	66	146	14	10	0.53
13	2.7	84	42	42	15.5	56	40	87	186	20	12	1.96

CAD

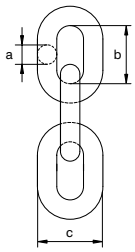
Green Pin® Lifting Chain S/S-GR5

Grade 5 stainless steel lifting chain

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **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 meter	length per drum	weight per meter
a mm	t	b mm	c mm		m	kg
6	0.7	18	21	55.56	100	0.78
8	1.2	24	29	41.67	100	1.30
10	1.6	30	34	33.33	100	2.14
13	2.7	39	45	25.64	100	3.64

CAD

Scan for additional product details

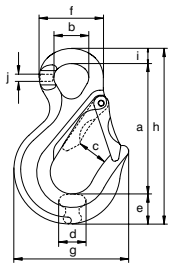
Green Pin® Sling Hook E S/S-GR5

Grade 5 stainless steel eye sling hook



- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Standard:** generally to ISO 4779
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	0.7	86	23.5	26	15	19	43	72	114	9.5	6	0.28
7/8	1.2	103	26	30	19.5	24	51	87	139	12	8	0.57
10	1.6	129	36	33	24	28	65	106	171	14.5	10	1.02
13	2.7	152	41	37	31	39	77	133	209	18	12	1.97

CAD INFO

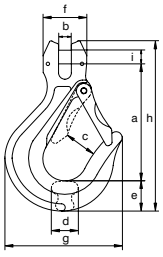
Green Pin® Sling Hook CL S/S-GR5

Grade 5 stainless steel clevis sling hook



- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 2.2 3.1 CE IIB
- **Article code:** scan QR code to see article codes
- **Note:** specific load pin available for 5 mm 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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	0.7	74	7	26	15	20	28	72	108	8	0.29
7/8	1.2	95	9.5	30	20	24	32	87	136	9	0.55
10	1.6	113	11.5	33	24	29	42	106	164	13	1.10
13	2.7	139	15	37	32	39	54	133	208	16	1.86

CAD INFO

Green Pin® Sling Hook SE S/S-GR5

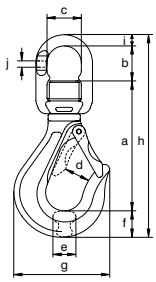
Grade 5 stainless steel swivel sling hook

Scan for additional product details

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **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
mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	0.7	100	33	32	26	15	20	72	164	11	6	0.54
7/8	1.2	126	40	37	30	20	25	87	204	13	8	0.77
10	1.6	158	47	48	33	24	29	106	250	16	11	1.92
13	2.7	189	59	58	37	32	39	133	308	21	13.5	3.39

CAD INFO

Scan for additional product details

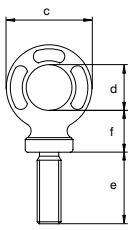
Green Pin® Lifting Eye S/S-GR5

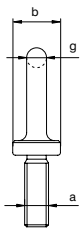
Grade 5 stainless steel lifting eye

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **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



ALI





working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.12	M6 x 1.00	19.5	34	20	20.5	17	7	0.05
0.2	M8 x 1.25	20	34	20	24	16.5	7	0.05
0.4	M10 x 1.50	20	38	22	30	19	8	0.08
0.6	M12 x 1.75	25	47	27	36	23	10	0.14
0.8	M14 x 2.00	30	57	30	40	27	13.5	0.26
1	M16 x 2.00	36	63	35	55	31	14	0.37
1.5	M18 x 2.50	36	63	35	55	31	14	0.49
2	M20 x 2.50	40	72	40	59	34	16	0.55
2.5	M22 x 2.50	42	82	45	66	38	18.5	0.78
3	M24 x 3.00	55	95	55	84	40	20	1.12

CAD INFO

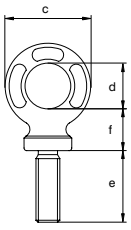
Green Pin® Lifting Eye DIN580 length S/S-GR5

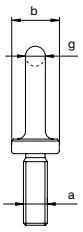
Grade 5 stainless steel lifting eye length as DIN580

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **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



ALDINI





working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.2	M8 x 1.25	20	34	20	13	16.5	7	0.05
0.4	M10 x 1.50	20	38	22	17	19	8	0.07
0.6	M12 x 1.75	25	47	27	21	23	10	0.13
0.8	M14 x 2.00	30	57	30	27	27	13.5	0.24
1	M16 x 2.00	36	63	35	27	31	14	0.34
1.5	M18 x 2.50	36	63	35	30	31	14	0.35
2	M20 x 2.50	40	72	40	30	34	16	0.52
2.5	M22 x 2.50	42	82	45	35	38	18.5	0.71
3	M24 x 3.00	55	95	55	36	40	20	0.98

CAD INFO

Scan for additional product details

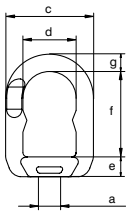
Green Pin® Eye Nut S/S-GR5

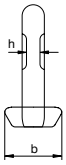
Grade 5 stainless steel eye nut



- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **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

ELI





working load limit	diameter thread	diameter base	width	width inside	thickness base	length inside	diameter	thickness	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.12	M6 x 1.00	31	51	30	14	45	10.5	6	0.15
0.2	M8 x 1.25	31	51	30	14	45	10.5	6	0.15
0.4	M10 x 1.50	31	51	30	14	45	10.5	6	0.15
0.6	M12 x 1.75	39	56	32	14.5	48	12	6	0.23
0.8	M14 x 2.00	39	56	32	14.5	48	12	6	0.23
1	M16 x 2.00	44	65	37	16	60	14	8	0.37
1.5	M18 x 2.50	44	65	37	16	60	14	8	0.37
2	M20 x 2.50	44	65	37	16	60	14	8	0.37
2.5	M22 x 2.50	52	79	49	21	75	15.5	11	0.63
3	M24 x 3.00	52	79	49	21	75	15.5	11	0.63
3.5	M27 x 3.00	52	79	49	21	75	15.5	11	0.63

CAD

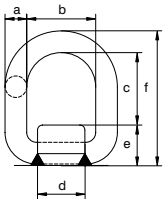
Green Pin® Weld-On Transport Ring S/S-GR5

Grade 5 stainless steel weld-on transport ring



- **Material:** AISI 316, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **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
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
0.75	13	40	41	35	28	82	0.42
1.25	18	45	48	42	33	99	0.75
3.20	22	55	57	49	42	120	1.40
5	26	70	66	64	50	142	2.51

CAD INFO

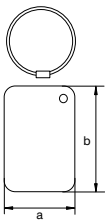
Green Pin® ID Tag S/S-GR5

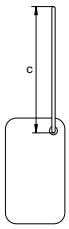
Grade 5 stainless steel identification tag

- **Material:** AISI 316L, grade 5
- **Finish:** polished
- **Certification:** 2.1



TAGI



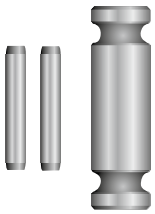


width	length	length	weight each
a mm	b mm	c mm	kg
50	80	305	0.07

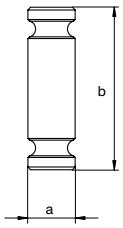
Green Pin® Clevis Fittings S/S-GR5 Spare Kit

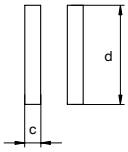
Grade 5 stainless steel spare kit for clevis fittings

- **Material:** AISI 316L, grade 5
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB
- **Note:** GPAC5I can be used for lifting and hoist chain



ACI





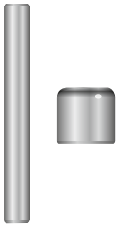
partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
GPAC5I	6	28	3	14	0.01
GPAC6I	8	28	3	14	0.01
GPAC7/8I	9	32	3	22	0.02
GPAC10I	13	41	4	24	0.04
GPAC13I	16	53	4	32	0.08

partnumber	for fitting	
	COI	CSCI
GPAC5I	GPCO5I	GPCSC5I
GPAC6I	GPCO6I	GPCSC6I
GPAC7/8I	GPCO7/8I	GPCSC7/8I
GPAC10I	GPCO10I	GPCSC10I
GPAC13I	GPCO13I	GPCSC13I

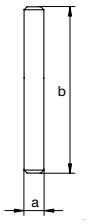
Green Pin® Connecting Link S/S-GR5 Spare Kit

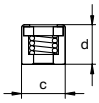
Grade 5 stainless steel spare kit for connecting link

- **Material:** AISI 316L, grade 5
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 3.1 CE IIB



RMJI





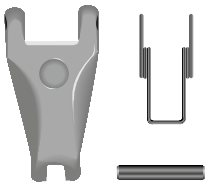
partnumber	diameter pin	length pin	diameter	width	weight each
	a mm	b mm	c mm	d mm	kg
GPRMJ6I	5	41	12	11	0.01
GPRMJ7/8I	6	54	13	14	0.02
GPRMJ10I	8	66	15	16	0.02
GPRMJ13I	10	84	22	17	0.08

partnumber	for fitting
	MJI
GPRMJ6I	GPMJ6I
GPRMJ7/8I	GPMJ7/8I
GPRMJ10I	GPMJ10I
GPRMJ13I	GPMJ13I

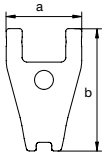
Green Pin® Latch S/S-GR5

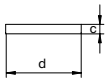
Grade 5 stainless steel forged latch

- **Material:** AISI 316L, grade 5
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **Certification:** 2.1 CE IIB



LFI





partnumber	width	length	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
LF0I	24	44	4	24	0.04
LF1I	31	59	5	30	0.05
LF2I	41	65	5	40	0.10
LF3I	41	79	6	40	0.20

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

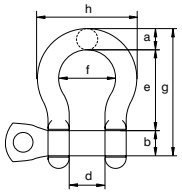
Green Pin® Bow Shackle S/S-GR5

Grade 5 stainless steel bow shackle with screw collar pin

- **Material:** AISI 316, grade 5
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.4	8	8	16	16	32	24	52	40	0.06
0.6	10	10	19	20	40	30	65	50	0.12
0.9	12	12	24	25	49	36	76	60	0.20
1.5	13	16	31	24	52	35	89	59	0.32
2.5	16	20	38	28	61	43	106	75	0.58
3	19	22	44	32	72	51	124	89	0.96
4	22	25	50	37	85	58	145	102	1.46
6	25	30	57	40	95	66	164	116	2.09

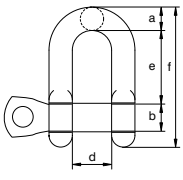
Green Pin® Dee Shackle S/S-GR5

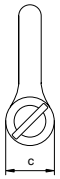
Grade 5 stainless steel dee shackle with screw collar pin

- **Material:** AISI 316, grade 5
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40 °C up to +200 °C
- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
0.4	8	8	16	16	32	52	0.06
0.6	10	10	19	20	40	65	0.11
0.9	12	12	24	25	48	78	0.19
1.5	13	16	31	24	52	89	0.30
2.5	16	20	38	28	64	109	0.57
3	19	22	44	32	72	124	0.90
4	22	25	50	37	74	134	1.33
6	25	30	57	40	94	163	1.98

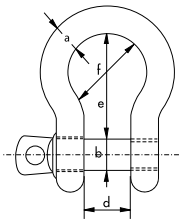
C

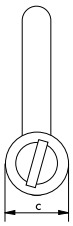
Shackles, bow shackles with screw pin

Bow shackles with screw pin



R-7825





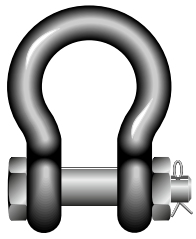
- **Material:** AISI 316
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** generally to DIN 82103
- **Finish:** polished
- **Certification:** 2.1 2.2 3.1 CE IIA
- **Note:** marked with WLL, CE and manufacturer identification symbol (VBS), except for 4 mm as it is too small

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight per 100 pcs
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
-	4	4	8	8	16	12	1.20
0.12	5	5	10	10	20	15	1.80
0.15	6	6	12	12	24	18	2.70
0.3	8	8	16	16	32	24	6.30
0.4	10	10	20	20	40	30	12.3
0.6	12	12	24	24	48	36	20.5
1	16	16	32	32	64	48	48
1.5	20	20	40	40	80	60	97
2	22	22	44	44	88	66	146
3	25	25	50	50	100	75	211
3.6	28	28	54	56	116	86	285

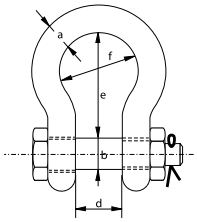
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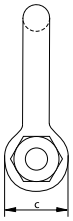
Shackles, bow shackles with safety bolt

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
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
0.3	8	8	16	16	32	24	7.40
0.4	10	10	19	20	40	30	14.5
0.6	12	12	24	25	49	36	23
1	16	16	31	32	64	48	56.6
1.5	19	19	38	38	80	60	99.5
2	22	22	43	44	85	66	146
3	25	25	49	50	100	75	218

C

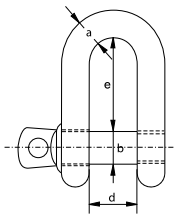
Shackles, dee shackles with screw pin

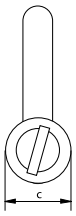
Dee shackles with screw pin



- **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 4 mm as it is too small

R-7821



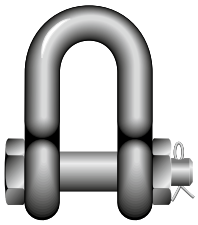


working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight per 100 pcs
t	a mm	b mm	c mm	d mm	e mm	kg
-	4	4	8	8	16	0.90
0.12	5	5	10	10	20	1.60
0.15	6	6	12	12	24	2.60
0.3	8	8	16	16	32	5.60
0.4	10	10	20	20	40	13
0.6	12	12	24	24	48	20
1	16	16	32	32	64	48
1.5	20	20	40	40	80	78
2	22	22	44	44	88	127
3	25	25	50	50	100	184
3.6	28	28	54	56	106	250

C

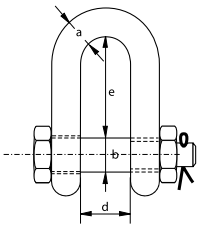
Shackles, dee shackles with safety bolt

Dee shackles with safety bolt



- **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)

R-7823





working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight per 100 pcs
t	a mm	b mm	c mm	d mm	e mm	kg
0.3	8	8	16	16	32	7.10
0.4	10	10	19	20	40	14
0.6	12	12	24	25	48	23.6
1	16	16	31	32	64	54.5
1.5	19	19	38	38	76	96
2	22	22	43	44	85	142
3	25	25	49	50	95	209

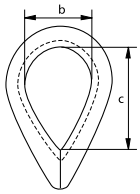
C

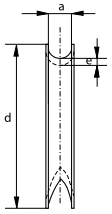
Thimbles, heavy type

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1 CE IIB



R-7860





width groove	width inside	length inside	length	thickness	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	kg
2	9	15	23	1	0.20
2.5	9.5	15.7	24	1	0.20
3	10	16	25	1	0.30
4	11	17	28	1	0.50
5	13	20	32	1	0.50
6	16	25	39	1.2	0.80
7	18	28	40	1.2	1
8	20	32	49	1.4	1.20
10	26	40	55	1.9	3.40
12	28	45	70	2	4.50
14	34	56	80	2.2	7.30
16	37	62	85	2.5	12.2
18	42	65	95	2.5	15.1
20	45	78	115	3	19
22	50	88	125	3	22.3
24	58	96	135	4	40.5
26	66	105	140	4	49.7

C

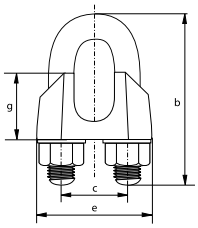
Wire rope clips

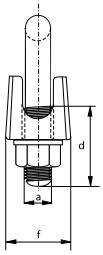
Generally to DIN 741

- **Material:** AISI 316
- **Standard:** generally to DIN 741
- **Finish:** polished
- **Certification:** 2.1 CE IIB



R-7863





diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
3	4	20	9	12	21	10	10	1.40
4	4	22	9	12	21	10	10	1.40
5	5	24	11	13	23	11	10	1.50
6	5	28	13	15	26	12	11	2.10
8	6	34	16	19	30	14	15	3.50
10	8	42	19	22	34	18	17	6.10
13	10	55	24	30	42	23	21	13
16	12	63	29	33	50	26	26	21
19	12	75	32	38	54	29	30	26
22	14	85	37	44	61	33	34	40
26	14	95	41	45	65	35	37	44

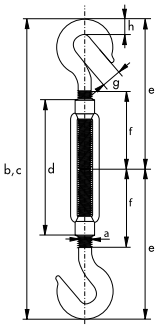
C

Open body rigging screws Hook-Hook

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1



R-7837

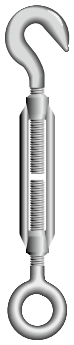


diameter thread	length closed position	length open position	length body	length	length	length	opening hook	thickness	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm		kg
M5	120	170	70	58	33	8	5		0.04
M6	150	210	90	73	43	9	6		0.08
M8	200	290	120	98	56	11	8		0.16
M10	240	355	150	117	71	12	9		0.27
M12	310	470	200	157	95	14	11		0.51
M16	390	590	250	186	116	16	15		1.20
M20	440	675	300	214	139	18	19		1.90

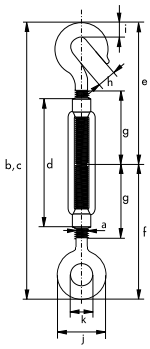
C

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 mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
M5	120	170	70	58	56	33	8	5	17	8	0.04
M6	150	210	90	73	71	43	9	6	21	10	0.08
M8	200	290	120	98	95	56	11	8	28	14	0.16
M10	240	355	150	117	118	71	12	9	34	16	0.27
M12	310	470	200	157	154	95	14	11	40	18	0.51
M16	390	590	250	186	190	116	16	15	54	26	1.20
M20	440	675	300	214	220	139	18	19	64	30	1.90

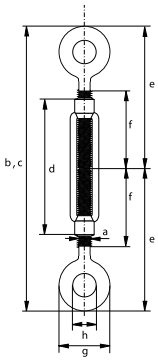
C

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 mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
M5	120	170	70	56	33	17	8	0.04
M6	150	210	90	71	43	21	10	0.08
M8	200	290	120	95	56	28	14	0.16
M10	240	355	150	118	71	34	16	0.27
M12	310	470	200	154	95	40	18	0.51
M16	390	590	250	190	116	54	26	1.20
M20	440	675	300	220	139	64	30	1.90

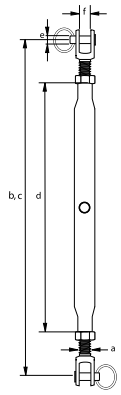
C

Closed body rigging screws Jaw-Jaw

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1



R-7830



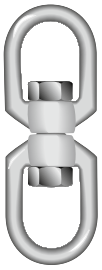
diameter thread	length open	length closed	length body	diameter pin	width jaw inside	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	f mm	kg
M5	190	125	80	5.2	6	6.50
M6	210	155	95	6.2	7.5	8.10
M8	240	180	105	8.7	10	15.9
M10	270	220	125	9.7	12	29.9
M12	360	255	150	12.7	14	53.2
M14	385	270	165	12.7	14	64
M16	450	320	190	16	16	116
M20	450	355	210	19	20	145

C

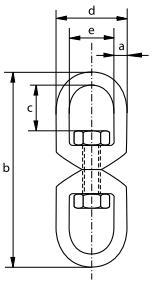
Swivels

Eye - Eye

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1



R-7877



diameter	length	length inside	width outside	width inside	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	kg
5	60	13	23	13	3.40
6	65	15	26	15	5.10
8	90	22	35	20	13.1
10	115	27	44	24	26
13	154	35	57	32	58
16	188	45	71	39	105
19	229	50	84	41	220

C

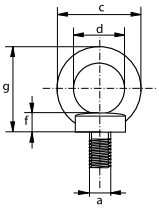
Eye bolts

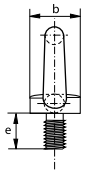
Generally to DIN 580



- **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
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.07	M6	20	36	20	13	6	36	3
0.14	M8	20	36	20	13	6	36	6
0.23	M10	25	45	25	17	8	45	10.3
0.34	M12	30	54	30	20.5	10	53	17.7
-	M16	35	63	35	27	12	62	28
1.2	M20	40	72	40	30	14	71	45
1.8	M24	45	90	45	36	18	90	74

C

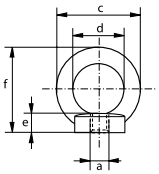
Eye nuts

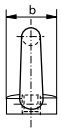
Generally to DIN 582



- **Material:** AISI 316
- **Standard:** generally to DIN 582
- **Finish:** polished
- **Certification:** 2.1

R-7842

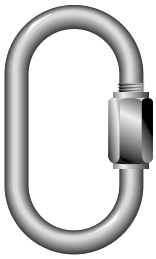




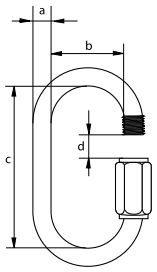
diameter thread	diameter base	diameter eye outside	diameter eye inside	thickness base	height	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	f mm	kg
M6	20	36	20	8.5	36	4.20
M8	20	36	20	8.5	36	5.20
M10	25	45	25	10	45	9.40
M12	30	54	30	11	53	14.8
M16	35	63	35	13	62	23.7

C

Quick links, standard type



R-7873

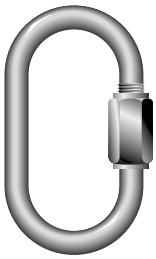


- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

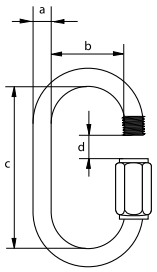
diameter	width inside	length inside	opening	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
3.5	10	29	5	155	0.90
4	12	32	5.5	450	1.20
5	13	39	6.5	585	2
6	14	46	7.5	790	3.30
7	16	51	8.5	1085	5.30
8	17	59	10.5	1380	7.50
9	17	64	11.5	1790	10.3
10	20	70	12.5	2085	13.7
12	23	83	14.5	2265	22.5

C

Quick links, with enlarged opening



R-7874



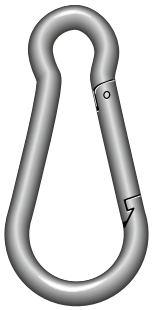
- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

diameter	width inside	length inside	opening	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
3.5	10	40	10	155	1.20
5	14	52	14	585	2.60
6	16	60	16	790	4
8	18	74	18	1380	9.10
10	20	85	20	2085	15.9
12	23	98	23	2265	30.4
14	27	116	26	2540	40.2

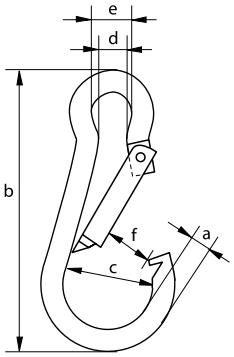
C

Carabine hooks, standard type

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1



R-7872

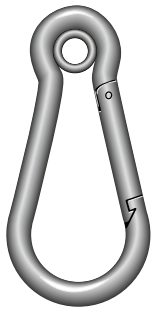


diameter	length	width	width inside	width inside	width opening	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	f mm	kg	kg
4	40	14	5	7	5.5	70	0.80
5	50	16	7	8	7.5	110	1.50
6	60	18	7	9	9	132	2.60
7	70	22	9	10	10.5	198	2.60
8	80	24	11	12	12.5	330	4.40
9	90	26	11	12	10	363	6.40
10	100	30	12	15	15	506	12.2
11	120	36	14	18	17	660	12.5
12	140	40	16	20	22	748	25
13	160	44	20	22	27	880	35
14	180	48	20	22	28	946	35

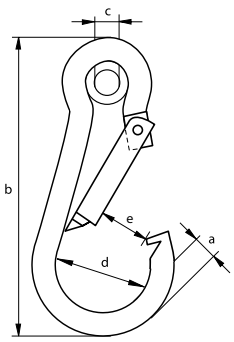
C

Carabine hooks, with pressed thimble

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1



R-7875

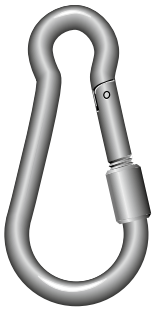


diameter	length	diameter inside thimble	width	width opening	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	kg	kg
4	40	5	14	5.5	70	0.90
5	50	5	16	7.5	110	1.60
6	60	5	18	9	132	2.80
7	70	7	22	10.5	198	4.40
8	80	10	24	12.5	330	6.40
9	90	10	26	10	363	9.30
10	100	13	30	15	506	12.5
11	120	13	36	17	660	18.7
12	140	15	40	22	748	25
13	160	17	44	27	880	35
14	180	17	48	28	946	50

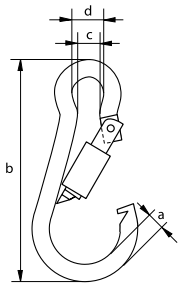
C

Carabine hooks, with screw nut

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1



R-7876



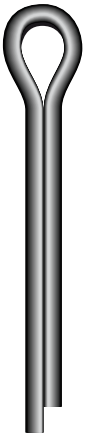
diameter	length	width inside	width inside	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
4	40	5	7	70	0.80
5	50	7	8	110	1.70
6	60	7	9	132	2.60
7	70	9	10	198	4.40
8	80	11	12	330	6.40
9	90	11	12	363	9.30
10	100	12	15	506	12.7
11	120	14	18	660	19.5
12	140	16	20	748	25
13	160	20	22	880	35
14	180	20	22	946	50

Cotter Pin

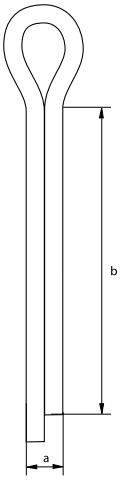
Stainless steel cotter pin

- **Material:** AISI 304
- **Finish:** polished
- **Certification:** 2.1

Scan for additional product details



R-7856



diameter	length	weight per 100 pcs
a mm	b mm	kg
2.5	20	0.08
4	32	0.30
5	36	0.60
6.3	45	1.20
8	63	2.80
8	80	4.40
10	71	5
10	90	6
10	100	6.60
10	120	4.40
12	140	7
12	160	7
12	180	7
13	110	12.1
16	160	16

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 mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2.5 x 20	0.5										0.4
	0.75										0.6
	1										0.8
	1.5										
4 x 32	2	2				3.3	2				
	3.25	3.25				5	3.25				
5 x 36	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
6 x 45	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		
8 x 63	13.5	13.5				21	13.5		12	15.5	
	17	17				30	17		16		
8 x 80					30						
					40						
10 x 71	25	25				40	25		25		
	35	35				55	35		30		
10 x 90	42.5	42.5				85	42.5		55		
	55	55					55				
10 x 100	85	85			55	120	85		75		
					75						
10 x 120					125						
12 x 140					150						
					200						
12 x 160					250						
					300						
13 x 110			120	120		150		120			
			150			175		150			
16 x 160			200					200			
			250					250			
			300					300			

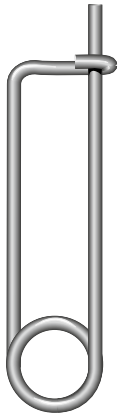
C

Safety Pin

Stainless steel safety pin

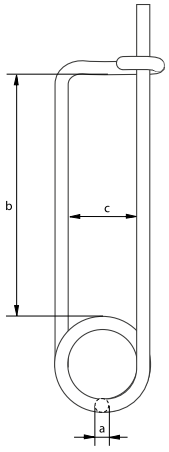
Scan for additional product details

- **Material:** AISI 304
- **Finish:** polished
- **Certification:** 2.1



R-7850

diameter	length inside	width inside	weight per 100 pcs
a mm	b mm	c mm	kg
2	46	18	0.50
3	66	23	1.80
4	74	29	3.90
5	85	38	7.40
6	90	39	12.5



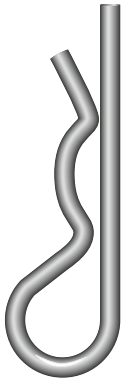
safety pin	for shackle							
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553	P-5367
a x b mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2x46	4.75	4.75	7	7	4.75	4.75	4.6	
	6.5	6.5		9.5	6.5	6.5		
3x66	8.5	8.5	12.5	12.5	8.5	8.5	8.6	
	9.5	9.5	18	15	9.5	9.5		
	12	12		18	12	12		
4x74	13.5	13.5	30	21	13.5	16	15.5	
	17	17		30	17	25		
	25	25		40	25			
5x95	35	35	40	55	35	30		
	42.5	42.5	55		42.5			
6x90	55	55	75	85	55	55		
	85	85	125	120	85	75		

Single Spring Pin

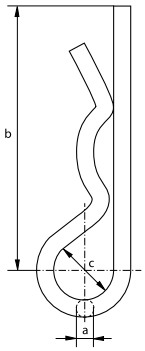
Stainless steel single type spring pin

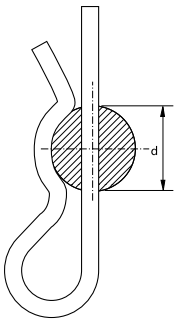
Scan for additional product details

- **Material:** AISI 304
- **Finish:** polished
- **Certification:** 2.1



R-7852





diameter	length	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
2	50	10	9 - 14	0.30
3	60	18	10 - 16	0.90
4	60	20	16 - 20	1.60
5	85	24	20 - 28	3.30
6	105	30	28 - 40	6.20
7	105	30	28 - 45	8.30
8	110	28	30 - 45	10.5

spring pin	for shackle						
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553
diameter mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2	2	2		3.3	2		
3	3.25	3.25		5	3.25		
4	4.75	4.75	7	7	4.75	4.75	4.6
	6.5	6.5		9.5	6.5		
5	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	
6	13.5	13.5		21	13.5	12	15.5
	17	17		30	17	16	
7	25	25	30	40	25	25	
			40				

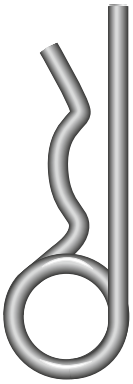
C

Spring Pins

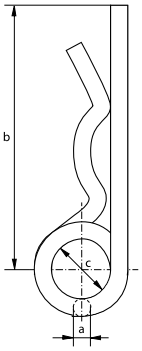
Stainless steel double type spring pin

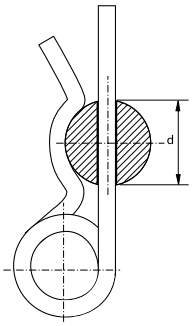
Scan for additional product details

- **Material:** AISI 304 or 316
- **Finish:** polished
- **Certification:** 2.1



R-7854





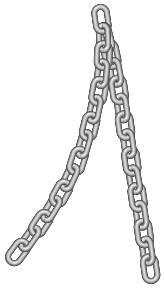
diameter	length	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
2	50	10	8 - 14	0.40
3	62	16	14 - 20	1.40
3	80	15	18 - 30	2.50
4	78	23	17 - 24	3
4	110	21	24 - 45	3
4	120	21	45 - 56	3
4	150	27	45 - 56	3
5	92	26	18 - 30	5.30
6	120	30	24 - 36	9.60
7	130	30	24 - 40	13.5
8	130	30	24 - 45	17.8

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 mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2 x 50	2	2		3.3	2							
3 x 62	3.25	3.25		5	3.25				6.5~12		6.5	
3 x 80										12		
										13.5		
4 x 78	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			
4 x 110										17		
										25		
										35		
4 x 120										42.5		12~55
										55		
4 x 150										85		
										120		
										150		
5 x 92	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						
6 x 120	13.5	13.5		21	13.5	12	15.5	17			12	
	17	17		30	17	16					17	
											25	
8 x 130	25	25	30	40	25	25		25			35	
			40									

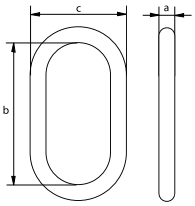
C

Short link chain

Generally to DIN 766 and DIN 5685-3



R-7880



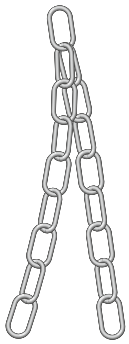
- **Material:** AISI 316
- **Standard:** generally to DIN 766 and DIN 5685-3
- **Certification:** 2.1

diameter	length inside	width outside	weight per meter
a mm	b mm	c mm	kg
3	16	11	0.17
4	16	14	0.32
5	18.5	17	0.50
6	18.5	20	0.75
8	24	26	1.35
10	28	34	2.25

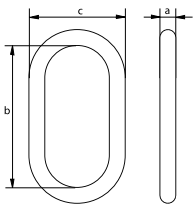
C

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 mm	b mm	c mm	kg
3	26	12	0.14
4	32	16	0.27
5	36	20	0.43
6	42	24	0.63
7	48	28	0.86
8	54	32	1.10
10	66	40	1.75




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
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