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Dear customer,

For over 90 years the production of high tensile shackles has been our core business and competence.
Dirk van Beest founded the Van Beest company in 1922, initially as a supplier of iron works to the dredging industry, which was strongly developed in the Sliedrecht area.
From the very beginning, the company has been forging shackles. Its ironwork expertise gave the Van Beest shackle an edge over the competition and this was the start of a network of professional users that now stretches across the globe. In 2007 Van Beest acquired the brand EXCEL®. Under this brand grade 8 and grade 10 lifting hooks are produced in our French factory. The designs and quality standards of our products are the result of requirements put forward over the years by our customers in markets throughout the world.
Our shackles are branded Green Pin®, our hooks EXCEL®, we are the sole proprietors of these two brands.

Production
At Van Beest we were faced with a labour-intensive production unit. Over the years Van Beest invested, with its own engineers, in the development of a production line of high quality output. The highly automated machines in our two factories are custom built to Van Beest's requirements and thus to those of our customers.

The same technicians demand the quality of the products during production and therefore guarantee quality to our customers. Each individual Green Pin® shackle or EXCEL® hook is marked with the steel grade and a traceability code. But quality is not only a matter of the product itself, it stretches across the entire organization. Since 1993 our company has been ISO certified by Lloyds; currently we are ISO 9001-2008 certified.

Accessories
Our products are used by professionals in many different environments such as the offshore industry, naval construction, the fishing industry, mining, and general industry, to mention just a few.
The Green Pin® shackle or EXCEL® hook is usually the final connection, and to serve our customers best, we have added a wide range of other steel wire rope and chain accessories which complement our full range of high quality products. These accessories are engineered by Van Beest and carefully sourced from certified suppliers to ensure they represent the same high quality performance as our own products.

Distribution
Both our Green Pin® shackles and EXCEL® hooks are inspected and stored at our main warehouse in Sliedrecht, 30 km from Rotterdam, where we offer our wide range of products from stock. Rotterdam is the main seaport to Europe inbound and has sailing connections to all the major business centres across the world outbound.

Storage efficiency is optimized by the latest computer software, enabling us to make maximum use of our storage facilities. A customer order can be shipped from our warehouse within 4 hours from placing the order. Additionally, wholesalers throughout the world maintain stocks of our Green Pin® shackles and EXCEL® hooks in order to serve their own target markets best. In over 80 countries worldwide Green Pin® shackles and EXCEL® hooks are available from storage at our various distributors. We will be pleased to advise you of the Green Pin® or EXCEL® supplier nearest to you to obtain supplies.

We trust this catalogue will be a helpful business tool for you and that it will assist you in serving your customers' needs. In addition, our skilled salespeople and technicians are always at your service. Please do not hesitate to contact us for any question related to shackles, hooks or other wire rope and chain accessories in general.

We are convinced that with the full range of our products and services you have found an excellent source that enables you to meet your needs in the global marketplace.

Kind regards,

C. Boer
Managing Director

R.M. Meer
Vice President Sales

P.S.: For general business terms and conditions see page 90

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Member of Van Beest International

Member of AWRF Associated Wire Rope Fabricators

VAN BEEST B.V., manufacturer and supplier of wire rope and chain fittings.
Registered trade marks:

EXCEL® GP Green Pin®

General

In case you do not use the products yourself but are reselling these as a part of a product manufactured by yourself, 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

For the production of hooks and other lifting devices, different raw materials are used, depending on the use of the finished product. For hooks for example, depending on the specific use, the following raw materials can be applied:

- alloy steel, quenched and tempered, which is comparable to grade 8
- alloy steel, quenched and tempered, which is comparable to grade 10
- stainless steel AISI316L or AISI316, which is comparable to grade 5

Load

Following terms are used to define a load:

- Working Load Limit or WLL: the maximum load the product is designed to support, in general use and in a straight pull.
- 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 further specific information as to 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 support the load. Where applicable the details on the MBL are given specifically for each product range, at the beginning of each chapter.
- Shock Load: a load resulting from a very rapid application of the load on the product. Shock loads are to be avoided in practice since these 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 the metric ton (t).

Safety factor

This factor gives the ratio between the Minimum Breaking Load and the Working Load Limit.
For the standard range of EXCEL® hooks for example, the safety factor is 4:1, meaning that the hook may only break once it is overloaded by a factor of at least 4 (4 times its designed Working Load Limit).

Product dimensions

All product dimensions in this catalogue are nominal dimensions. Product design, materials and/or specifications can be subject to alterations without prior notification.

Finish

Products in this catalogue are self coloured or painted in a specific colour after production. 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.

Certificates

Depending on the type of product and certificate availability for a certain product, following certificates are used in this catalogue:

- works certificate in accordance with EN 10204 - 2.1;
- material certificate in accordance with EN 10204 - 3.1;
- manufacturer test certificate;
- EC Declaration of Conformity in accordance with annex IIA of the machine directive 2006/42/EC and the latest amendments;
- proof load test certificate;
- certificate with the actual breaking load experienced on tested samples.

Please refer to the relevant product chapter for further details on certificates.
On request we can test under supervision of a classification bureau like LROS, DNV, BV, ABS etc.

Testing

Generally the proofloads for grade 8 products are as per following table and certificates can be supplied upon request.
For further conditions on certificates, please consult the general price list.

Diameter		Working Load Limit (WLL)	Proof Load (PL)	Minimum Breaking Load (MBL)
inch	mm	t	t	t
3/16	5	0.8	2	3.2
7/32	6	1.12	2.8	4.48
1/4	7	1.57	3.93	6.28
5/16	8	2	5	8
3/8	10	3.2	8	12.8
1/2	13	5.4	13.5	21.6
5/8	16	8.2	20.5	32.8
3/4	20	12.8	32	51.2
7/8	22	15.5	38.75	62
1	26	21.6	54	86.4
1 1/4	32	32.8	82	131.2

The WLL figures given correspond to WLL for chains for use in chain slings.

General cautions and warnings

All Working Load Limits (WLL) indicated in this catalogue or in other Van Beest literature or publications are only applicable to recently supplied, new and unused products, which are used under normal conditions.
Should extreme circumstances or shock loading be applicable, this must be taken into account when specifying the products to be used.

The Working Load Limit should be applied in a straight pull and overloads should not be applied. Side loads should be avoided, as the products are not designed for this purpose and the application of a side load may significantly decrease the product life.
The Working Load Limit for the product corresponds to static use. In case of dynamic use (breaking, accelerations, shocks), the effective stress on the product increases significantly which can lead to product failure.

It is required that the products are regularly inspected and that the inspection should take place 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. with a consequence of deformation and alteration of the material structure.
Inspection should take place at least every six months and even more frequently when the products are used in severe operating conditions.
In accordance with our on-going policy to improve our products, some dimensions or product markings may differ from those stated.
The characteristics mentioned in this catalogue or in other Van Beest literature or publications are given merely as an indication.
Van Beest reserves the right to make all suitable modifications to any product, even after acceptance of the customer order. In any case, the essential characteristics and performances of the products shall not be negatively affected by such modifications. Any dimension considered to be critical should be verified with our engineering department.

Verification before first use

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

- the chain sling is precisely as requested and ordered
- the valid manufacturer certificate and EC declaration are at hand
- the identification and the working load limit mentioned on the sling correspond to the information given on the certificate
- full details of the chain sling are recorded (components, diameter, number of legs, angle, grade) 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 chain sling should be visually inspected for obvious damage or deterioration (refer to warning about each component or chain). 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 even more frequently when the slings are used in severe operation conditions. Records of such inspections should be maintained.
Chains slings should be thoroughly cleaned to remove any oil, dirt, rust prior to inspection. Any cleaning method which does not damage the material is acceptable. Methods to avoid are those using acids, overheating, removal of metal or movement of metal which may cover cracks or surface defects.
The chain 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 chain 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.
With chain slings, if any chain link within the leg of a chain sling is required to be replaced then the whole of the chain within that leg should be renewed. The repair of chain in a welded chain sling should exclusively be carried out by the chain manufacturer using the adequate welding process. Components showing any defect should be discarded and replaced.
Where repair is carried out by replacement of a mechanically assembled component, proof testing is not required providing that the component has already been tested by the manufacturer in accordance with the relevant European Standard.

Handling of the load

- It is important to check the chain sling before lifting and also to check the load itself too. Check if there are any specific instructions provided for the lifting of the load (given by the manufacturer of the load). Before starting the lift, it should be ensured that the load is free to move and is not bolted down or nothing could fall from the load. The path between the previous location and the new one must be free.
- The weight of the load must be known in order to select a sling with the correct working load limit. If the weight of the load is not marked, the information should be obtained from the consignment notes, manuals, drawings or assessed by calculation.
- The position of the centre of gravity of the load should be established in relation to the possible points of attachment of the chain sling. To prevent any tilting or toppling, the following conditions should be met:
  - for single leg and endless chain slings the attachment points should be directly above the centre of gravity.
  - for two leg chain slings the attachment points should be on either side of, and above the centre of gravity.
  - for three and four leg chain slings the attachment points should be distributed in a plane around the centre of gravity. It is preferable that the weight distribution should be equal and that the attachment points are above the centre of gravity.

When using two-, three- and four-leg chain slings the attachment points and chain sling configuration should be selected to achieve angles between the chain sling legs and the vertical within the range marked on the chain sling. In any case the angle ß, which is the angle between the chain sling leg and the vertical, should not exceed 60°. More details concerning load reductions at certain angles can be found in the relevant tables corresponding to the grade.
Ensure that the load to be moved is able to resist both the vertical and horizontal force without being damaged.
The hook connected to the chain should be directly above the centre of gravity.

- A suspended load should not be left unattended.
- If a multi leg chain sling is not used for the purpose for which it has been designed, for example a lift with less legs than the number of legs of the chain sling, the WLL should be reduced from that marked on the chain sling by applying the relevant factor given hereunder:

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

- In any case, the chain sling should have a WLL equal to or greater than the weight to be lifted.
- Riggers should be aware of the risks and dangers of shock loading which may break the chain. The load should always be lifted and lowered slowly.

Method of connection

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

Symmetry of loading

The working load limit values mentioned in our catalogue for each grade have been determined on the basis that the loading of the chain sling is symmetrical. This means that when the load is lifted the chain sling legs are symmetrically distributed in the plane and all legs of the chain sling have the same angles to the vertical.
Refer to EN818-6:2000+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
- chain sling leg angles to the vertical are all more than 15° and
- chain sling leg angles to the vertical are all within 15° to each other and
- in the case of three- and four- leg chain slings, the plane angles are within 15° of each other.

If one of the above parameters is not met than the loading should be considered as asymmetric and the lift should be referred to a competent engineer to establish the safe rating for the chain sling. Alternatively, in the case of asymmetric loading, the chain sling should be rated at half the marked WLL.

If the load tends to tilt, it should be lowered and the attachments changed (by repositioning the attachment points or by using compatible shortening devices).

Despite the safety factor of 4 or 5, never exceed the given working load limit (WLL).

Safety of lift

Hands and other body parts should be kept away from the chain to prevent injury.
The load should be lifted slowly until the chain is taut. As soon as the load is slightly raised, a check should be made that it is secure and has the position intended. Reference should be made to ISO 12480-1 for planning and management of the lifting operation and the adoption of safe systems of working. Never move the load during the lift over people.

Lowering the load

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

Storage of chain slings

When not in use chain 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 chain slings are to be left suspended from a crane hook, the chain sling hooks should be engaged in an upper link to reduce risk of chain sling legs swinging freely or snagging.
If the chain slings are out of use for some time they should be cleaned, dried and protected from corrosion, e.g. lightly oiled.

Maintenance

The conditions of use of the chain slings may affect their safety. It is necessary therefore to ensure, as far as is reasonably practicable, that the chain sling should be safe for continued use.

If the tag identifying the chain sling and its working load limit becomes detached and the necessary information is not marked on the sling, the chain sling should be withdrawn from service.
A competent engineer should examine it by observing following:

- The chain sling markings are legible, i.e. information on the chain sling identification and/or the working load limit
- Distortion of the upper or lower end fittings
- Chain stretch and wear

If any parts should be replaced, like the load pin or the latch of a hook, only use the original spare kits of EXCEL®.
As soon as a load pin is misused or damaged or distorted, it must be replaced by the correct EXCEL® spare kit.

Limitations in use

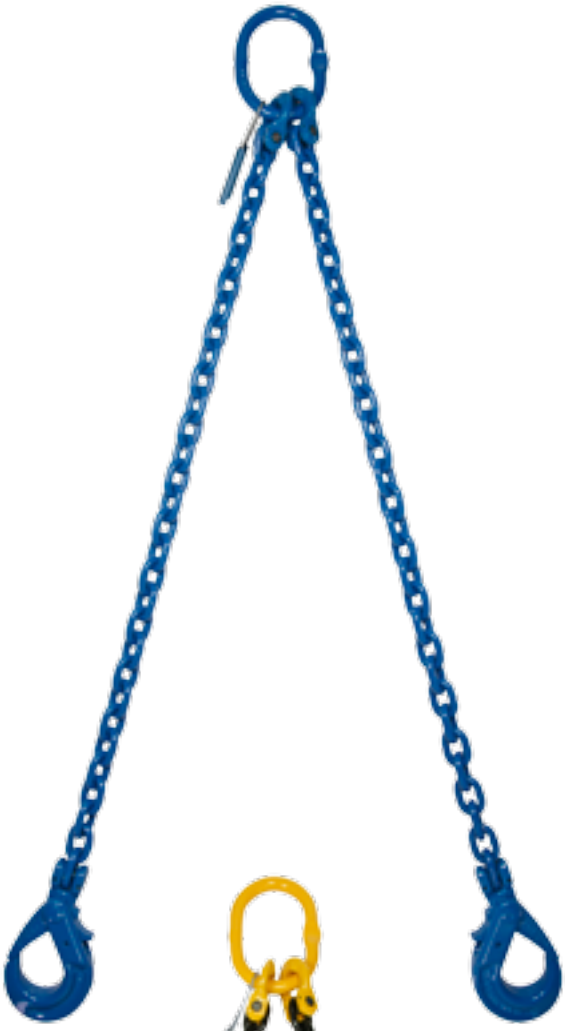
- Never modify by welding or heat treating or grinding or any other process the components or the chains. It could alter their mechanical and/or chemical characteristics
- Consult the manufacturer of the components and the chains if the chain sling is to be exposed to highly concentrated chemicals. The EXCEL® parts must 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 working load limit adjusted accordingly.
- If extreme temperature situations are applicable, the following load reduction must be taken into account:

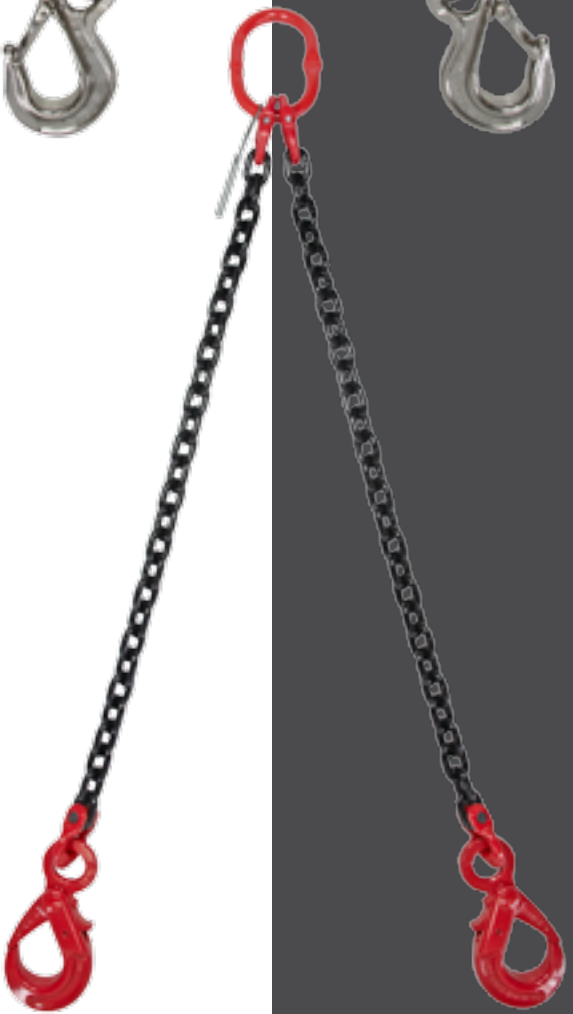
Temperature °Celcius	Reduction for elevated temperatures New Working Load Limit
up to 200 °C	100 % of original Working Load Limit
200 – 300 °C	90 % of original Working Load Limit
300 – 400 °C	75 % of original Working Load Limit
> 400 °C	not allowed

The use of chain slings within the permissible temperature range in the above table does not require any permanent reduction in working load limit after the chain sling is back to normal temperatures. In the case of accidental exposure to excessive temperatures, the chain sling should be withdrawn from service.

Conversion factors

To convert from	to	multiply by
Length		
mm	inch	0.0393701
inch	mm	25.4
Mass		
US tons	metric tons	0.9071847
metric tons	US tons	1.1023113
metric tons	pounds	2204.6226218
pounds	metric tons	0.0004536
metric tons	kilogram	1000
kilogram	metric tons	0.001
metric tons	kilo Newton	9.8066500
kilo Newton	metric tons	0.1019716
pounds	kilogram	0.4535924
kilogram	pounds	2.2046226
Torque		
Newton meter	foot pound-force	0.7375621
foot pound-force	Newton meter	1.3558180





Grade 8 products

Applications :

Grade 8 lifting fittings offer a lifting capacity matching grade 8 chain.

Range :

Van Beest offers a wide range of grade 8 items in order to assemble a complete sling from the top master link to the hooks.
The range extends from 6 mm to 32 mm (1/4" to 1 1/4").

Design :

Grade 8 components supplied by Van Beest are all manufactured from alloy steel and generally drop forged.
Most master links, eye and swivel hooks have a flat part to make assembly with the omega link (CO) easier. CSEC swivel hooks are equipped with ball bearings. Other swivels hooks are equipped with needle roller thrust bearings.

These components are generally stamped with following markings:

manufacturer's identification symbol	EXCEL
traceability code	e.g. AB, pertaining to a particular batch
steel grade	8
CE conformity code	CE, Conformité Européen
item code	e.g. MP
chain diameter in mm and/or inch	e.g. 13 and/or 1/2"
origin	FRANCE

Finish :

The grade 8 components are powder coated yellow or red.

Certification :

Upon request, all the grade 8 items can be supplied with a works certificate and/or EC Declaration of conformity. Some items can also be supplied with a manufacturer test certificate and/or a 3.1 material certificate. We refer to the detailed product information on the next pages.

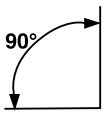
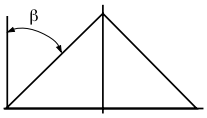
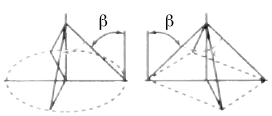
Instructions for use :

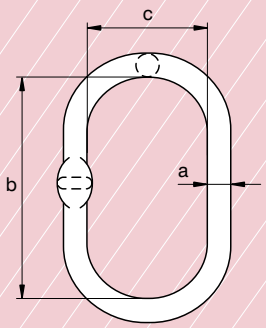
In general all grade 8 components should be inspected before use to ensure that :

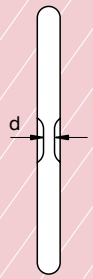
- all markings are legible
- all items are free from nicks, gouges, cracks and corrosion
- items with the correct Working Load Limit have been selected with respect to the sling design i.e. the load to be lifted, the number of legs in the sling, the top angle etc. For further details, we refer to EN818 norm for chain slings
- items may not be heat treated as this may affect their Working Load Limit
- never modify, repair or reshape an item by machining, welding, heating or bending as this may affect the Working Load Limit
- master links and the other items of the sling are all identifiable as being of the same steel grade
- items should be used for straight in line loading only, this in order to avoid bending
- items are not distorted or unduly worn

It is required that the products are regularly inspected and that the inspection should take place minimally 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. with a consequence of deformation and alteration of the material structure.
Inspection by a competent person should take place at least every six months and even more frequently when the components are used in severe operating conditions.

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
			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
inch	mm	t	t	t	t	t	t
7/32	6	1.12	1.60	1.12	2.36	1.70	1.80
1/4	7	1.50	2.12	1.50	3.15	2.24	2.50
5/16	8	2.00	2.80	2.00	4.25	3.00	3.15
3/8	10	3.15	4.25	3.15	6.70	4.75	5.00
1/2	13	5.30	7.50	5.30	11.20	8.00	8.50
5/8	16	8.00	11.20	8.00	17.00	11.80	12.50
3/4	20	12.50	17.00	12.50	26.50	19.00	20.00
7/8	22	15.00	21.20	15.00	31.50	22.40	23.60
1	26	21.20	30.00	21.20	45.00	31.50	33.50
1 1/4	32	31.50	45.00	31.50	67.00	47.50	50.00



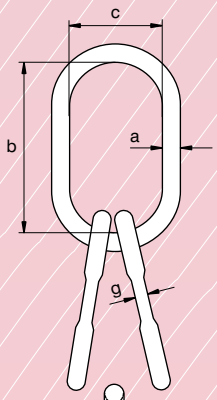


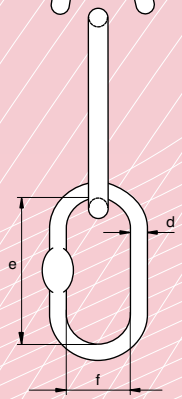
MS

EXCEL® Master link, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : generally to EN 1677-4
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity
- **Note** : from 50 t without flat part

partnumber	working load limit	diameter chain 1 leg		diameter chain 2 legs				dia-meter	length inside	width inside	thick-ness	weight each
				ß ≤ 45°		ß ≤ 60°		a	b	c	d	
	t	inch	mm	inch	mm	inch	mm	mm	mm	mm	mm	kg
MS13J or R	1.6	7/32-1/4	6-7	7/32	6	7/32-1/4	6-7	13	100	60	7	0.33
MS16J or R	3.2	3/8	8	1/4-5/16	7-8	5/16	8	16	120	70	7	0.56
MS18J or R	4.5	3/8	10	3/8	10	3/8	10	18	135	75	9	0.8
MS20J or R	6.2	1/2	13	-	-	1/2	13	20	150	90	9	1.11
MS22J or R	8.2	5/8	16	1/2	13	5/8	16	22	150	90	11	1.36
MS25J or R	10.6	3/4	18	-	-	3/4	18	25	170	95	13	1.96
MS28J or R	12.8	3/4	20	5/8	16	3/4	19	28	200	120	13	2.92
MS30J or R	15.5	7/8	20-22	3/4	18	3/4-7/8	20-22	30	200	120	17	3.4
MS36J or R	20	-	-	3/4	19-20	-	-	36	250	150	17	6.1
MS38J or R	25	1	26	7/8	22	1	26	38	250	150	21	6.8
MS44J or R	30	-	-	1	26	-	-	44	280	170	21	10.8
MS45J or R	37	1 1/4	32	-	-	1 1/4	32	45	300	200	23	11.7
MS50J or R	50	-	-	1 1/4	32	-	-	50	300	200	-	14.75
MS55J or R	63	-	-	-	-	-	-	55	350	200	-	20
MS70J or R	100	-	-	-	-	-	-	70	400	250	-	39
MS80J or R	125	-	-	-	-	-	-	80	400	250	-	52



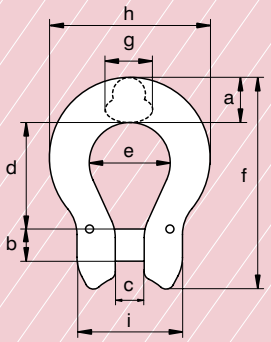


MTS

EXCEL® Master link assembly, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : generally to EN 1677-4
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity
- **Note** : from 60 t without flat part

partnumber	working load limit	diameter chain 3/4 legs				dia-meter	length inside	width inside	dia-meter	length inside	width inside	thick-ness	weight each
		ß ≤ 45°		ß ≤ 60°		a	b	c	d	e	f	g	
	t	inch	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
MTS16J or R	2.5	7/32	6	7/32-1/4	6-7	16	120	70	13	100	60	7	1.24
MTS18J or R	3.5	1/4	7	5/16	8	18	135	75	16	100	60	6	1.75
MTS22J or R	6.5	5/16	8	3/8	10	22	150	90	18	120	70	9	2.8
MTS25J or R	8.5	3/8	10	1/2	13	25	170	95	20	120	70	11	3.82
MTS28J or R	10	-	-	-	-	28	200	120	20	120	70	11	4.7
MTS30J or R	13	1/2	13	5/8	16	30	200	120	22	135	75	14	5.85
MTS36J or R	17	5/8	16	3/4	18-19	36	250	150	25	135	75	14	9.35
MTS38J or R	20	-	-	3/4	20	38	250	150	28	170	95	17	11.75
MTS44J or R	27	3/4	18-19-20	7/8	22	45	280	170	33	200	120	17	18.5
MTS45J or R	30	-	-	-	-	45	300	200	36	200	120	21	22
MTS50J or R	40	7/8	22	1	26	50	300	200	38	150	90	21	24
MTS55J or R	50	1	26	1 1/4	32	55	300	200	38	150	90	23	27
MTS58J or R	60	-	-	-	-	58	350	200	42	150	90	-	34
MTS70J or R	80	1 1/4	32	-	-	70	400	250	55	300	150	-	72
MTS80J or R	100	-	-	-	-	80	400	250	58	300	150	-	92

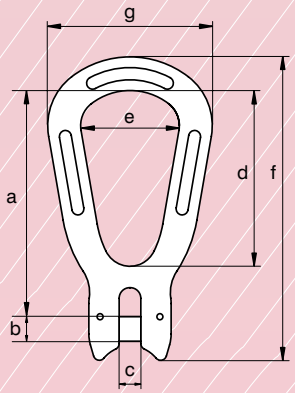


CO

EXCEL® Omega link EN1677-1, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-1
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		width	diameter pin	width	length inside	width bow	length outside	thickness	width outside	width outside	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CO5J or R	0.8	3/16	5	11	6	7	24	19	50	9	39	28	0.07
CO6J or R	1.12	7/32	6	11	8	7	24	19	50	9	39	28	0.07
CO7/8J or R	2	1/4-5/16	7-8	18	9	9	32	23	70	16	53	32	0.18
CO10J or R	3.2	3/8	10	18	13	11	40	30	81	17	61	42	0.28
CO13J or R	5.4	1/2	13	23	16	14	50	39	104	20	80	54	0.64
CO16J or R	8.2	5/8	16	30	20	17	63	47	130	25	100	68	1.21
CO18/20J or R	12.8	3/4	18-20	35	24	22	80	58	160	30	120	82	2.09

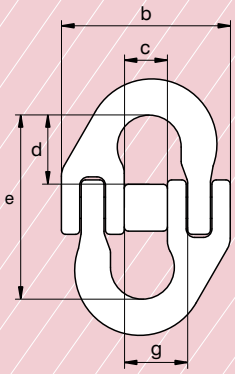


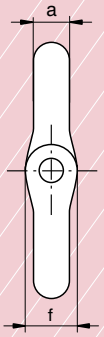
MP

EXCEL® Pear shaped link, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	diameter pin	width	length inside	width inside	length	width outside	weight each
				a	b	c	d	e	f	g	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
MP5J or R	0.8	3/16	5	79	6	7	63	32	105	54	0.14
MP6J or R	1.12	7/32	6	79	8	7	63	32	105	54	0.14
MP7/8J or R	2	1/4-5/16	7-8	88	9	8	70	40	121	69	0.28
MP10J or R	3.2	3/8	10	109	13	11	86	49	151	84	0.63
MP13J or R	5.4	1/2	13	147	16	14	116	66	200	112	1.4
MP16J or R	8.2	5/8	16	182	20	17	146	84	249	142	2.72
MP18/20J or R	12.8	3/4	18-20	242	24	21	196	103	319	165	4.28



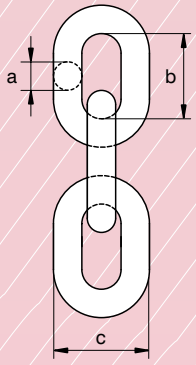


MJ

EXCEL® Connecting link EN1677-1, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-1
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
				a	b	c	d	e	f	g	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
MJ6J or R	1.12	7/32	6	8	42	11	20	52	11	15	0.14
MJ7/8J or R	2	1/4-5/16	7-8	9	53	14	21	55	16	19	0.15
MJ10J or R	3.2	3/8	10	10	66	18	24	64	18	25	0.32
MJ13J or R	5.4	1/2	13	14	83	21	31	85	24	29	0.7
MJ16J or R	8.2	5/8	16	17	103	25	40	105	28	36	1.29
MJ18/20J or R	12.8	3/4	18-20	21	120	33	50	129	33	43	2.08
MJ22J or R	15.5	7/8	22	23	143	39	54	140	37	53	3.33
MJ26J or R	21.6	1	26	26	160	44	57	153	43	59	4.92
MJ32J or R	32.8	1 1/4	32	39	197	51	64	174	55	68	8.2



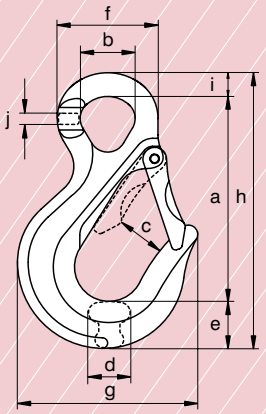
CHAIN

Lifting chain EN818-2, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 818-2
- **Finish** : painted black
- **Certification** : at no extra charge this product can be supplied with a works certificate, manufacturer test certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter		length inside	width outside	links per meter	length per drum	weight per mtr
		a		b	c			
	t	inch	mm	mm	mm		m	kg
CHAIN6	1.12	7/32	6	18	22	55.56	500/600	0.78
CHAIN7	1.5	1/4	7	21	26	47.62	500	1.14
CHAIN8	2	5/16	8	24	30	41.67	350	1.5
CHAIN10	3.15	3/8	10	30	36	33.33	250	2.27
CHAIN13	5.3	1/2	13	39	47	25.64	150	3.74
CHAIN16	8	5/8	16	48	58	20.83	100	5.54
CHAIN20	12.5	3/4	20	60	72	16.67	60	8.94
CHAIN22	15	7/8	22	66	79	15.15	50	11.57
CHAIN26	21.2	1	26	78	93	12.82	25/30	15.26
CHAIN32	31.5	1 1/4	32	96	112	10.42	50	22.61

EXCEL®

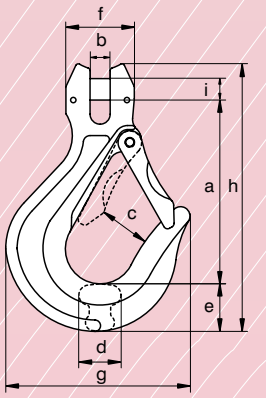


CSO

EXCEL® Eye sling hook EN1677-2, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-2
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : from 8.2 t without flat part

partnumber	working load limit	for chain diameter		length	dia-meter inside eye	width opening	thick-ness	width	dia-meter eye outside	width outside	length outside	width	thick-ness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CSO5/6J or R	1.12	3/16-7/32	5-6	86	23	27	15	19	43	73	115	10	7	0.30
CSO7/8J or R	2	1/4-5/16	7-8	102	26	27	19	23	51	87	137	13	8	0.56
CSO10J or R	3.2	3/8	10	121	35	28	23	29	66	106	165	16	11	1.02
CSO13J or R	5.4	1/2	13	155	41	33	31	36	76	136	208	19	14	1.79
CSO16J or R	8.2	5/8	16	185	48	46	34	43	92	159	252	22	17	2.89
CSO18/20J or R	12.8	3/4	18-20	272	60	62	53	65	115	236	365	27	22	9.1
CSO22J or R	15.5	7/8	22	280	72	75	54	65	132	242	375	30	23	9.5
CSO26J or R	21.6	1	26	259	70	73	70	75	144	235	371	37	37	10.4
CSO32J or R	32.8	1 1/4	32	299	66	87	78	89	150	281	430	42	42	20.5

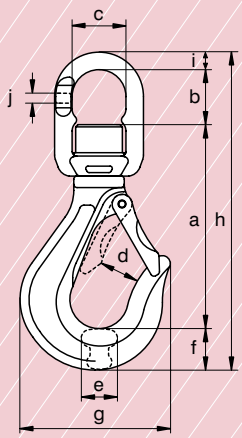


CSC

EXCEL® Clevis sling hook EN1677-2, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-2
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width	width opening	thick-ness	width	width out-side	width out-side	length out-side	dia-meter pin	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CSC5J or R	0.8	3/16	5	76	7	27	15	19	28	73	108	6	0.29
CSC6J or R	1.12	7/32	6	76	7	27	15	19	28	73	108	8	0.29
CSC7/8J or R	2	1/4-5/16	7-8	95	9	30	20	22	32	85	133	9	0.54
CSC10J or R	3.2	3/8	10	113	11	33	24	28	42	106	164	13	1.1
CSC13J or R	5.4	1/2	13	138	15	35	32	40	54	133	208	16	2.12
CSC16J or R	8.2	5/8	16	161	18	43	40	44	67	165	240	20	3.77
CSC18/20J or R	12.8	3/4	18-20	233	22	62	53	65	82	236	342	24	9.77
CSC22J or R	15.5	7/8	22	235	24	77	49	60	96	227	343	28	8.70

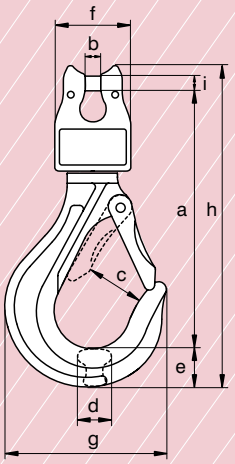


CSE

EXCEL® Swivel sling hook EN1677-2, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-2
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : equipped with needle roller thrust bearing

partnumber	working load limit	for chain diameter		length	length inside	width inside	width opening	thickness	width	width outside	length outside	diameter	thickness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CSE5/6J or R	1.12	3/16-7/32	5-6	100	33	32	27	15	19	73	164	12	6	0.55
CSE7/8J or R	2	1/4-5/16	7-8	126	39	37	30	20	22	85	200	14	8	1
CSE10J or R	3.2	3/8	10	159	47	48	33	24	29	106	250	16	11	1.9
CSE13J or R	5.4	1/2	13	189	59	58	36	32	39	133	307	21	14	3.42
CSE16J or R	8.2	5/8	16	216	68	73	43	40	44	165	352	25	17	6.25
CSE18/20J or R	12.8	3/4	18-20	263	87	82	59	49	62	208	437	25	22	10.5

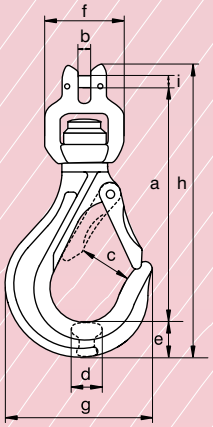


CSEC

EXCEL® Swivel sling hook with clevis EN1677-2, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-2
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : equipped with ball bearings

partnumber	working load limit	for chain diameter		length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CSEC5J or R	0.8	3/16	5	111	7	25	16	20	34	73	144	6	0.46
CSEC6J or R	1.12	7/32	6	111	7	25	16	20	34	73	144	8	0.46
CSEC7/8J or R	2	1/4-5/16	7-8	144	8	29	20	22	41	85	184	9	0.93
CSEC10J or R	3.2	3/8	10	169	11	30	24	30	49	104	221	13	1.71
CSEC13J or R	5.4	1/2	13	216	14	36	31	39	60	133	281	16	3.16

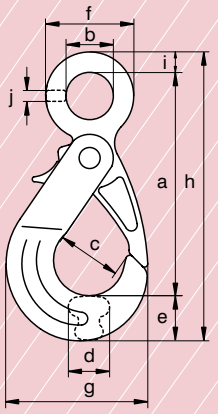


CSECA

EXCEL® Swivel sling hook with clevis EN1677-2, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-2
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : equipped with needle roller thrust bearing

partnumber	working load limit	for chain diameter	length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
			a	b	c	d	e	f	g	h	i	
	t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CSECA16J or R	8.2	16	317	18	43	34	49	121	166	352	20	6.69

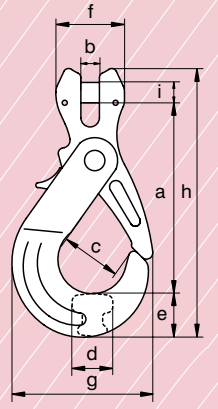


XLO

EXCEL® Eye self locking hook EN1677-3, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-3
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : from 12.8 t without flat part

partnumber	working load limit	for chain diameter		length	diameter inside eye	width opening	thick-ness	width	width outside	width outside	length	width	thick-ness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
XLO0J or R	1.12	3/16-7/32	5-6	111	24	32	16	26	47	77	147	11	7	0.51
XLO1J or R	2	1/4-5/16	7-8	134	29	43	23	29	57	92	176	14	7	0.91
XLO2J or R	3.2	3/8	10	168	35	47	32	35	69	111	219	17	10	1.79
XLO3J or R	5.4	1/2	13	199	46	61	37	45	87	142	264	20	13	3.36
XLO4J or R	8.2	5/8	16	247	59	74	43	56	111	185	328	26	16	7
XLO5J or R	12.8	3/4	18-20	282	69	88	51	63	126	207	374	28	20	9.22

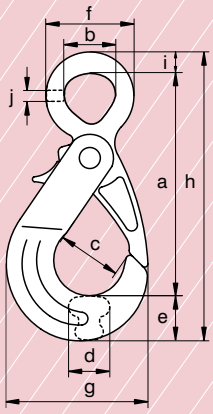


XLC

EXCEL® Clevis self locking hook EN1677-3, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-3
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
XLC05J or R	0.8	3/16	5	92	7	32	16	26	28	77	131	6	0.49
XLC0J or R	1.12	7/32	6	92	7	32	16	26	28	77	131	8	0.49
XLC1J or R	2	1/4-5/16	7-8	116	9	43	23	29	32	92	161	9	0.91
XLC2J or R	3.2	3/8	10	143	11	47	32	35	42	111	200	13	1.77
XLC3J or R	5.4	1/2	13	167	14	61	37	45	54	142	242	16	3.33
XLC4J or R	8.2	5/8	16	201	18	74	43	56	68	185	293	20	6.75
XLC5J or R	12.8	3/4	18-20	232	22	88	51	63	82	207	341	24	9.57

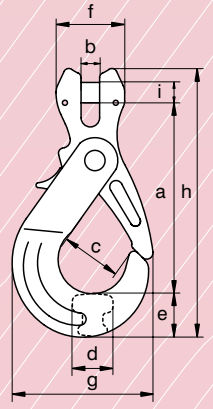


GKO

EXCEL® Eye self locking hook, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
GKO1J or R	2	1/4-5/16	7-8	113	24	32	17	25	48	77	151	13	9	0.53
GKO2J or R	3.2	3/8	10	134	30	43	24	29	59	92	180	17	10	0.94
GKO3J or R	5.4	1/2	13	170	39	47	32	34	75	111	225	20	12	1.86
GKO4J or R	8.2	5/8	16	207	49	61	37	46	93	142	273	22	15	3.49
GKO5J or R	12.8	3/4	18-20	257	60	74	43	57	117	185	341	28	21	7.33
GKO6J or R	15.5	7/8	22	290	71	88	52	62	133	207	383	31	21	9.91

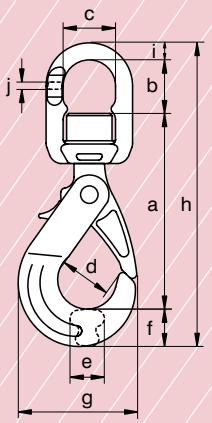


GKC

EXCEL® Clevis self locking hook, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
GKC1J or R	2	1/4-5/16	7-8	85	9	32	17	25	32	77	136	9	0.55
GKC2J or R	3.2	3/8	10	116	11	43	24	29	42	92	168	13	1.02
GKC3J or R	5.4	1/2	13	153	15	47	32	34	54	111	218	16	2.01
GKC4J or R	8.2	5/8	16	166	18	62	37	46	66	142	247	20	3.56
GKC5J or R	12.8	3/4	18-20	215	22	74	43	57	80	185	312	24	7.28
GKC6J or R	15.5	7/8	22	242	25	88	52	62	98	207	353	28	10.3

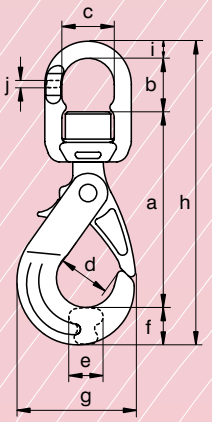


XLE

EXCEL® Swivel self locking hook EN1677-3, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-3
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : equipped with needle roller thrust bearing

partnumber	working load limit	for chain diameter		length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
XLE0J or R	1.12	3/16-7/32	5-6	122	32	32	32	16	26	77	192	12	6	0.78
XLE1J or R	2	1/4-5/16	7-8	148	39	37	43	23	29	92	231	14	8	1.39
XLE2J or R	3.2	3/8	10	183	46	48	47	32	35	111	282	16	11	2.56
XLE3J or R	5.4	1/2	13	214	57	58	61	37	45	142	336	21	14	4.56
XLE4J or R	8.2	5/8	16	269	65	73	74	39	56	185	416	25	17	9.37
XLE5J or R	12.8	3/4	18-20	303	87	82	88	51	63	207	480	25	22	12.7

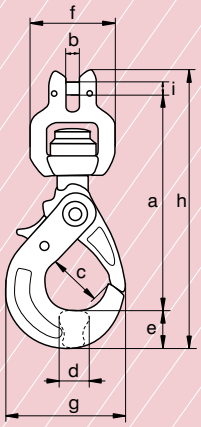


GKE

EXCEL® Swivel self locking hook, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity
- **Note** : equipped with needle roller thrust bearing

partnumber	working load limit	for chain diameter		length	length inside	width inside	width opening	thickness	width	width outside	length	diameter	thickness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
GKE1J or R	2	1/4-5/16	7-8	122	33	32	32	17	25	77	192	12	6	0.77
GKE2J or R	3.2	3/8	10	148	40	37	43	24	29	92	231	14	8	1.38
GKE3J or R	5.4	1/2	13	185	47	48	47	32	34	111	282	16	11	2.56
GKE4J or R	8.2	5/8	16	213	60	58	61	37	46	142	339	21	14	4.58
GKE5J or R	12.8	3/4	18-20	268	62	73	74	43	57	185	417	25	17	9.51
GKE6J or R	15.5	7/8	22	305	88	82	90	52	62	207	480	25	22	12.85

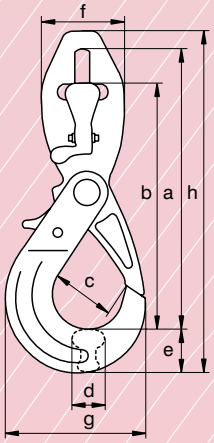


XLBA

EXCEL® Swivel clevis self locking hook EN1677-3, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-3
- **Finish** : painted red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : equipped with needle roller thrust bearing

partnumber	working load limit	for chain diameter		length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
XLBA05R	0.8	3/16	5	148	7	32	17	27	56	77	188	6	0.7
XLBA0R	1.12	7/32	6	148	7	32	17	27	56	77	188	8	0.8
XLBA1R	2	1/4-5/16	7-8	176	9	43	24	31	65	92	221	9	1.4
XLBA2R	3.2	3/8	10	214	11	47	32	37	79	111	271	13	2.6
XLBA3R	5.4	1/2	13	250	15	61	37	47	96	142	325	16	4.7
XLBA4R	8.2	5/8	16	319	18	74	43	67	121	185	411	20	9.8



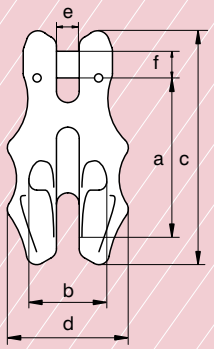
XLR

EXCEL® Shortening self locking hook EN1677-3, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-3
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : supplied with chain stopper AXLR

partnumber	working load limit	for chain diameter		length	length	width opening	thickness	width	width outside	width outside	length	weight each
				a	b	c	d	e	f	g	h	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
XLR7/8J or R	2	1/4-5/16	7-8	170	143	43	23	29	51	92	211	1.35
XLR10J or R	3.2	3/8	10	218	187	47	32	35	64	111	267	2.58
XLR13J or R	5.4	1/2	13	257	217	61	37	45	83	142	320	4.87

EXCEL®

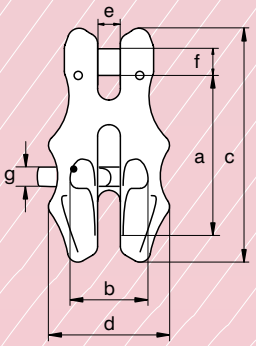


GC

EXCEL® Shortening clutch EN1677-1, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-1
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width inside	length	width outside	width	diameter pin	weight each
				a	b	c	d	e	f	
	t	inch	mm	mm	mm	mm	mm	mm	mm	kg
GC6J or R	1.12	7/32	6	54	22	75	42	7	8	0.22
GC7/8J or R	2	1/4 - 5/16	7-8	69	30	94	50	8	9	0.41
GC10J or R	3.2	3/8	10	79	37	116	63	11	13	0.82
GC13J or R	5.4	1/2	13	105	48	149	79	14	16	1.67
GC16J or R	8.2	5/8	16	129	60	185	100	17	20	3.1
GC18/20J or R	12.8	3/4	18-20	140	75	205	111	22	24	4.02

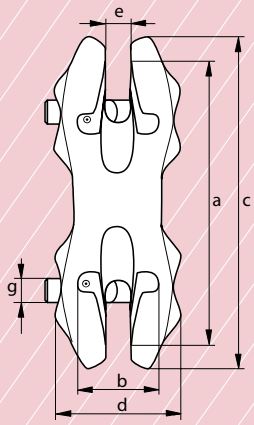


GCV

EXCEL® Shortening clutch with locking EN1677-1, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-1
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width inside	length	width outside	width	diameter pin	diameter pin	weight each
				a	b	c	d	e	f	g	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
GCV6J or R	1.12	7/32	6	54	22	75	42	7	8	7	0.22
GCV8J or R	2	5/16	8	69	30	94	50	8	9	8	0.41
GCV10J or R	3.2	3/8	10	79	37	116	63	11	13	12	0.82
GCV13J or R	5.4	1/2	13	105	48	149	79	14	16	16	1.67
GCV16J or R	8.2	5/8	16	129	60	185	100	17	20	20	3.1
GCV20J or R	12.8	3/4	20	140	75	205	111	22	24	20	4.02



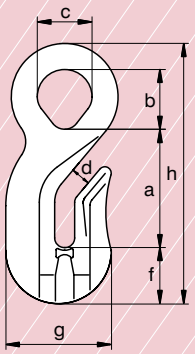
GDV

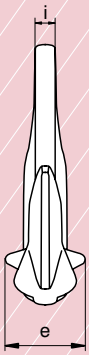
EXCEL® Shortening clutch with double locking, EN 1677-1, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-1
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width inside	length	width outside	width	diameter pin	weight each
				a	b	c	d	e	f	
	t	inch	mm	mm	mm	mm	mm	mm	mm	kg
GDV13J or R	5.4	1/2	13	178	47	208	79	14	16	2.85

EXCEL®



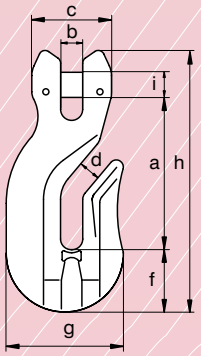


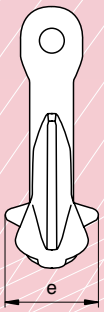
CRO

EXCEL® Eye grab hook EN1677-1, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-1
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	inside length eye	inside width eye	opening	thickness	width	width outside	length outside	thickness	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CRO6J or R	1.12	7/32	6	41	24	23	8	24	20	42	94	6	0.25
CRO7/8J or R	2	1/4-5/16	7-8	52	20	20	10	33	23	46	108	8	0.31
CRO10J or R	3.2	3/8	10	53	29	29	12	41	28	58	123	10	0.53
CRO13J or R	5.4	1/2	13	89	43	39	15	56	40	78	192	18	1.63
CRO16J or R	8.2	5/8	16	103	44	41	18	66	43	96	211	20	2.49
CRO20J or R	12.8	3/4	20	130	37	37	22	75	48	128	241	26	4.3
CRO22J or R	15.5	7/8	22	120	44	44	25	77	57	132	247	26	4.75
CRO26J or R	21.6	1	26	158	46	46	30	100	82	177	320	32	10
CRO32J or R	32.8	1 1/4	32	210	57	57	38	91	88	215	395	39	19.7



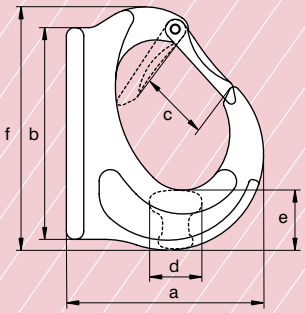


CRC

EXCEL® Clevis grab hook EN1677-1, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-1
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width	width outside	opening	thickness	width	width outside	length outside	diameter pin	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CRC7/8J or R	2	1/4-5/16	7-8	63	8	33	10	33	23	46	104	9	0.35
CRC10J or R	3.2	3/8	10	74	11	42	12	38	28	58	127	13	0.65
CRC13J or R	5.4	1/2	13	102	15	54	15	56	40	78	174	16	1.7
CRC16J or R	8.2	5/8	16	127	18	68	18	65	43	96	208	20	2.81

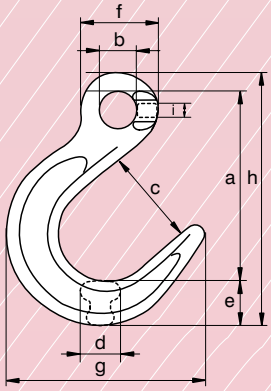


GH

EXCEL® Excavator hook, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : welding must be done in accordance with DIN 5817 resp. 15429, by a qualified welder according to EN 287-1

partnumber	working load limit	width	length	width opening	thickness	width	length	width	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
GH0.75J	0.75	59	71	22	14	21	82	20	0.24
GH1J	1	72	78	25	19	28	108	26	0.52
GH2J	2	92	85	33	20	28	114	34	0.7
GH3J	3	105	104	33	26	32	129	34	1.15
GH4J	4	121	130	38	27	37	148	38	1.66
GH5J	5	138	150	43	28	46	167	44	2.36
GH8J	8	145	148	43	42	53	173	51	3.32
GH10J	10	178	197	60	47	61	225	67	6.44
GH15J	15	185	226	65	62	70	251	80	9.7



CFO

EXCEL® Eye foundry hook, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : from 8.2 t without flat part

partnumber	working load limit	for chain diameter		length	diameter eye inside	width opening	thick-ness	width	diameter eye outside	width outside	length	thick-ness	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CFO6J orR	1.12	7/32	6	93	18	47	17	22	38	97	125	7	0.33
CFO7/8J or R	2	1/4-5/16	7-8	124	24	63	22	30	51	129	166	9	0.78
CFO10J or R	3.2	3/8	10	157	33	79	28	36	66	160	208	11	1.5
CFO13J or R	5.4	1/2	13	190	44	93	36	46	85	198	256	14	3
CFO16R	8.2	5/8	16	205	35	95	45	52	88	204	284	24	5.6
CFO18/20R	12.8	3/4	18-20	235	40	111	53	55	92	228	315	25	7.8
CFO22R	15.5	7/8	22	265	46	123	66	71	110	258	268	32	13.5
CFO26R	21.6	1	26	305	54	133	65	81	120	277	420	33	13.8
CFO32R	32.8	1 1/4	32	327	60	155	84	96	131	333	459	35	24.5

EXCEL®

Lifting eyes

Applications:

Lifting eyes are screwed or welded on a load or a machine to be used as lifting points.

Range:

Van Beest offers a wide range of lifting points in alloy steel: fixed, articulated, pivoting and/or rotating.

- Fixed lifting point:
  - Eye nut, type EL
    - a metric version
  - Eye bolt, type AL
    - a metric version with standard and shorter lengths (according to DIN580 lengths)
    - a UNC version in one standard length
- Pivoting and rotating lifting eye bolts:
  - Pivoting (180°) eye bolt, type OL
    - a metric version
  - Pivoting (180°) and rotating (360°) eye bolt, type ADA
    - a metric version in 3 different lengths
    - a UNC version in one standard length
- Welded transport ring, type PAS
    - from 1.2 t up to 15 t, to be welded on the load

Design:

The lifting eyes are manufactured grade 8 alloy steel. Only the forged welding block of the PAS is made of weld quality steel. Compared to the DIN 580 and 582 carbon steel lifting eyes, the alloy steel lifting eyes offer a higher Working Load value for an equivalent size. For example, DIN 580 M20 in carbon steel has a Working Load Limit of 1.2 t and the alloy steel lifting eye AL M20 has a Working Load Limit of 2.5 t. The ADA articulated lifting eyes can be loaded in all directions, providing full safety.

These components are generally stamped with following markings:

manufacturer's identification symbol	EXCEL
traceability code	e.g. AB, pertaining to a particular batch
steel grade	8 (only on AL, EL and ADA)
CE conformity code	CE, Conformité Européen
item code	EL, AL, ADA or OL
metric value	e.g. M16
Working Load Limit	e.g. 1.5 t
origin	FRANCE

Finish:

The grade 8 lifting eyes are powder coated in red. All the lifting eyes are supplied with a protective cover over the thread.
Do not remove until use.

Certification:

Upon request, all lifting eyes can be supplied with a works certificate and/or EC Declaration of conformity. Some items can also be supplied with a 3.1 material certificate. We refer to the detailed product information on the next pages.

Instructions for use:

Lifting eyes should be inspected before use to ensure that :

- all markings are legible
- lifting points are free from nicks, gouges, cracks and corrosion
- lifting point with the correct Working Load Limit has been selected with respect to the load to be lifted, the angle, the thread and the shank length
- lifting eyes should never be side-, tip- or back-loaded
- always make sure that the lifting eye is supporting the load correctly
- lifting eyes may not be heat treated as this may affect their Working Load Limit
- never modify, repair or reshape a lifting eye by machining, welding, heating or bending as this may affect the Working Load Limit
- lifting eyes and the other components are all identifiable as being of the same steel grade
- lifting eyes are not distorted or unduly worn
- lifting point should be seated well down in a hook
- lifting points should be well fixed in the load (same thread, well positioned)

The shank length should be adapted to the material of the load. The shank should be long enough, i.e. 1.5 times the diameter for hard materials and 3 times for softer materials like aluminum and brass. The length must not be smaller than 1.5 times the diameter (e.g. M20, minimum length 30 mm). For softer material, consider a longer length and through-hole mounting with a nut and washer on the other side. The material to which the lifting point will be attached should be strong enough to withstand lifting forces without any deformation. The lifting point must be adapted to the hook size in order to be positioned correctly in the seat of the hook.

Assembly:

The bolt thread and the tapped hole in the load must be compatible and both in a good state. The depth of the tapping should be at least 20 % more than the shank length.
The surface should be flat and perpendicular to the lifting eye shank providing full contact with the lifting eye.
When a nut is screwed on the shank, it must be at least a class 8 one. Class 10 or 12 is recommended.
Never use a sling as a loop between two lifting eyes.
Consider the center of gravity of the load to position the lifting eyes (symmetric to the center)
The tapping must be positioned at a distance of at least 3 times the shank diameter from the edge of the load.

For the AL, EL and OL lifting eyes, the angle of use is limited to 30° from the axis. Over 30° the Working Load Limit will decrease drastically. We recommend to use an articulated lifting eye if the angle is over 30°. The assembly must be done by hand without any tool or lever. The lifting eye should be screwed until the base is flush with the surface of the load.

For the ADA articulated lifting eye, tighten mounting screws to recommended torque. Periodically check torque because screws could loosen in extended service.
Check if the hoist ring can pivot and rotate freely in all directions.

The load on each hoist ring depends on the angles and should be calculated using the following formula :

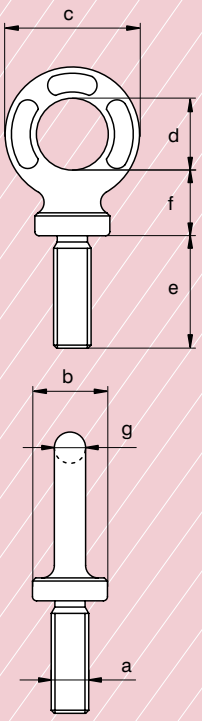
$$WLL = \frac{W}{N \cdot \cos ß}$$

W = load weight in kg
N = number of legs or hoist rings
ß = angle of inclination of the leg to the vertical

For the transport ring PAS, the welding should be done in accordance with DIN 5817 resp. 15429, by a qualified welder according to EN 287-1

- the thickness of the weld must be sufficient to support the load to be lifted.
- the surface must be clean, free from rust, painting, grease.
- the weld band must be strong enough to resist to the load.
- the hook shape must follow the support shape.

It is required that the products are regularly inspected and that the inspection should take place minimally in accordance with the safety standards given in the country of use. This is necessary because the products in use may be affected by wear, misuse, overloading, etc. with a consequence of deformation and alteration of the material structure.
Inspection by a competent person should take place at least every six months and even more frequently when the components are used in severe operating conditions.

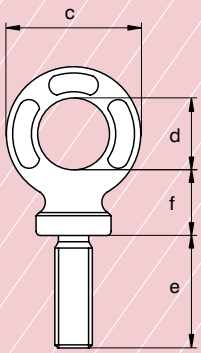


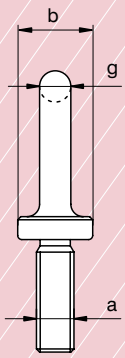
AL

EXCEL® Eye bolt, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
AL06R	0.2	M 6 x 1.00	20	34	20	20	17	7	0.05
AL08R	0.4	M 8 x 1.25	20	34	20	24	17	7	0.05
AL10R	0.7	M10 x 1.50	20	38	22	30	19	8	0.08
AL12R	1	M12 x 1.75	25	47	26	36	23	10	0.14
AL14R	1.2	M14 x 2.00	30	57	29	40	28	14	0.25
AL16R	1.5	M16 x 2.00	36	65	35	55	30	14	0.36
AL18R	2	M18 x 2.50	36	65	35	54	30	14	0.38
AL20R	2.5	M20 x 2.50	40	73	39	59	34	16	0.55
AL22R	3	M22 x 2.50	42	82	44	64	38	19	0.74
AL24R	4	M24 x 3.00	55	95	54	84	40	20	1.12
AL27R	5	M27 x 3.00	55	95	54	84	40	20	1.18
AL30R	6	M30 x 3.50	60	108	59	100	49	24	1.84
AL33R	7	M33 x 3.50	60	108	59	100	49	24	2.01
AL36R	8	M36 x 4.00	65	118	67	118	45	25	2.44
AL39R	9	M39 x 4.00	65	118	67	118	45	25	2.62
AL42R	10	M42 x 4.50	70	139	79	135	56	31	3.97
AL45R	15	M45 x 4.50	70	139	79	135	56	31	4.16
AL48R	18	M48 x 5.00	95	181	97	150	68	43	8.22
AL52R	20	M52 x 5.00	95	181	97	150	68	43	8.55
AL56R	25	M56 x 5.50	95	181	97	150	68	43	8.85
AL60R	30	M60 x 5.50	95	181	97	150	68	43	9.16
AL64R	36	M64 x 6.00	95	181	97	150	68	43	9.55





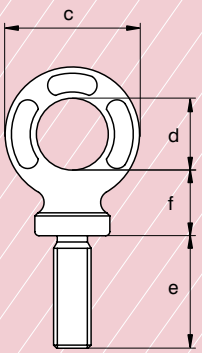
ALDIN

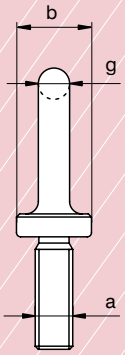
EXCEL® Eye bolt length as DIN580, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
AL06RDIN	0.2	M 6 x 1.00	20	34	20	13	17	7	0.05
AL08RDIN	0.4	M 8 x 1.25	20	34	20	13	17	7	0.05
AL10RDIN	0.7	M10 x 1.50	20	38	22	17	19	8	0.07
AL12RDIN	1	M12 x 1.75	25	47	26	21	23	10	0.13
AL14RDIN	1.2	M14 x 2.00	30	57	29	27	28	14	0.24
AL16RDIN	1.5	M16 x 2.00	36	64	35	27	30	14	0.34
AL18RDIN	2	M18 x 2.50	36	65	35	30	30	14	0.38
AL20RDIN	2.5	M20 x 2.50	40	73	39	30	34	16	0.52
AL22RDIN	3	M22 x 2.50	42	82	44	35	38	19	0.67
AL24RDIN	4	M24 x 3.00	55	95	54	36	40	20	0.99
AL27RDIN	5	M27 x 3.00	55	95	54	38	40	20	1.08
AL30RDIN	6	M30 x 3.50	60	108	59	45	49	24	1.66
AL33RDIN	7	M33 x 3.50	60	108	59	45	49	24	1.74
AL36RDIN	8	M36 x 4.00	65	118	67	54	45	25	2.01
AL39RDIN	9	M39 x 4.00	65	118	67	55	45	25	2.08
AL42RDIN	10	M42 x 4.50	70	139	79	63	56	31	3.37
AL45RDIN	15	M45 x 4.50	70	139	79	65	56	31	3.47
AL48RDIN	18	M48 x 5.00	95	181	97	68	68	43	7.17
AL52RDIN	20	M52 x 5.00	95	181	97	78	68	43	7.25
AL56RDIN	25	M56 x 5.50	95	181	97	78	68	43	7.52
AL60RDIN	30	M60 x 5.50	95	181	97	78	68	43	7.78
AL64RDIN	36	M64 x 6.00	95	181	97	90	68	43	8.12

EXCEL®



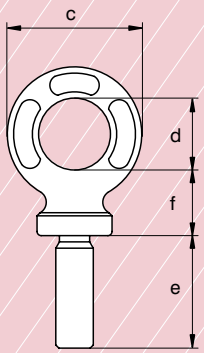


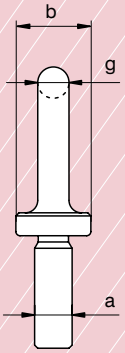
ALUNC

EXCEL® Eye bolt, grade 8, UNC

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or Declaration of Conformity

partnumber	working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
		a	b	c	d	e	f	g	
	t	inch	mm	mm	mm	mm	mm	mm	kg
AL06RUNC	0.2	1/4 - 20UNC	20	34	20	20	17	7	0.05
AL10RUNC	0.7	3/8 - 16UNC	20	38	22	30	19	8	0.08
AL12RUNC	1	1/2 - 13UNC	25	47	26	36	23	10	0.14
AL16RUNC	1.5	5/8 - 11UNC	36	65	35	55	30	14	0.36
AL20RUNC	2.5	3/4 - 10UNC	40	73	39	59	34	16	0.55
AL22RUNC	3	7/8 - 9UNC	42	82	44	64	38	19	0.74
AL24RUNC	4	1 - 8UNC	55	95	54	84	40	20	1.14
AL27RUNC	5	1 1/8 - 7UNC	55	95	54	84	40	20	1.21
AL30RUNC	6	1 1/4 - 7UNC	60	108	59	100	49	24	1.91
AL36RUNC	8	1 1/2 - 6UNC	65	118	67	118	45	25	2.52





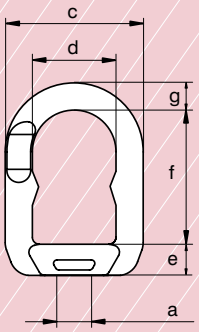
ALB

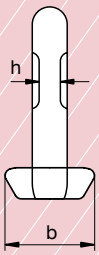
EXCEL® Eye bolt without thread, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : final WLL of product may change after machining

partnumber	working load limit	diameter	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
AL06B	0.2	12	22	34	20	20	18	7	0.07
AL08B	0.4	12	22	34	20	24	17	7	0.07
AL10B	0.7	15	24	38	22	30	19	8	0.11
AL12B	1	16	28	47	26	36	23	10	0.17
AL14B	1.2	19	34	57	29	40	28	14	0.3
AL16B	1.5	22	40	64	35	51	32	14	0.47
AL18B	2	22	41	65	35	54	30	14	0.48
AL20B	2.5	26	45	73	39	59	34	16	0.55
AL22B	3	29	47	82	44	64	38	19	0.94
AL24B	4	30	58	95	54	80	42	20	1.4
AL27B	5	31	61	95	54	84	40	20	1.36
AL30B	6	39	66	108	60	94	52	24	2.4
AL33B	7	41	67	108	59	100	49	24	2.5
AL36B	8	41	71	118	67	117	47	25	3
AL39B	9	42	71	118	67	118	46	25	3
AL42B	10	51	77	139	79	134	58	32	5
AL45B	15	52	77	139	79	135	56	31	5.09
AL64B	36	72	102	181	97	150	68	43	9.75

EXCEL®



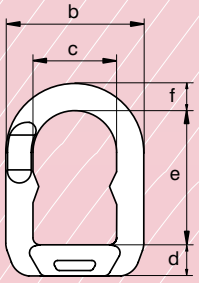


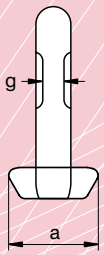
EL

EXCEL® Eye nut, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter thread	diameter base	width	width inside	thickness base	length inside	diameter	thickness	weight each
			b	c	d	e	f	g	h	
	t	a	mm	mm	mm	mm	mm	mm	mm	kg
EL6R	0.2	M 6 x 1.00	31	51	30	14	44	11	6	0.15
EL8R	0.4	M 8 x 1.25	31	51	30	14	44	11	6	0.15
EL10R	0.7	M10 x 1.50	31	51	30	14	44	11	6	0.15
EL12R	1	M12 x 1.75	39	56	32	15	48	12	6	0.23
EL14R	1.2	M14 x 2.00	39	56	32	15	48	12	6	0.23
EL16R	1.5	M16 x 2.00	44	65	37	16	60	14	8	0.4
EL18R	2	M18 x 2.50	44	65	37	16	60	14	8	0.4
EL20R	2.5	M20 x 2.50	44	65	37	16	60	14	8	0.4
EL22R	3	M22 x 2.50	52	80	48	21	75	16	11	0.63
EL24R	4	M24 x 3.00	52	80	48	21	75	16	11	0.63
EL27R	5	M27 x 3.00	52	80	48	21	75	16	11	0.63
EL30R	6	M30 x 3.50	66	96	58	25	88	21	14	1.11
EL33R	7	M33 x 3.50	66	96	58	25	88	21	14	1.11
EL36R	8	M36 x 4.00	84	121	73	39	100	25	17	2.22
EL39R	9	M39 x 4.00	84	121	73	39	100	25	17	2.22
EL42R	10	M42 x 4.50	84	121	73	39	100	25	17	2.22
EL45R	15	M45 x 4.50	90	132	82	42	121	25	22	2.73
EL48R	18	M48 x 5.00	90	132	82	42	121	25	22	2.73



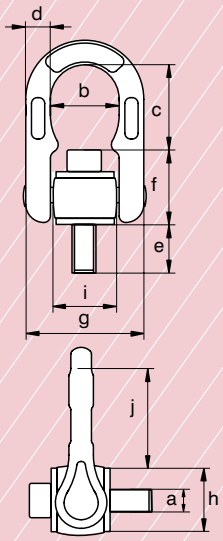


ELB

EXCEL® Eye nut without thread, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : final WLL of product may change after machining

partnumber	working load limit	diameter base	width	width inside	thickness base	length inside	diameter	thickness	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
EL0BR	0.7	31	51	30	15	45	11	6	0.16
EL1BR	1.2	39	56	32	16	48	12	6	0.24
EL2BR	2.5	44	65	37	18	60	14	8	0.42
EL3BR	5	52	80	48	23	75	16	11	0.69
EL4BR	7	66	96	58	28	88	21	14	1.15
EL5BR	10	84	121	73	42	100	25	17	2.56
EL6BR	18	90	132	82	45	121	25	22	3.27

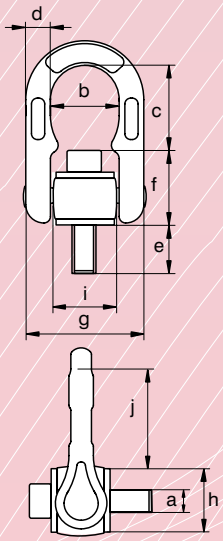


ADA

EXCEL® Rotating hoist ring, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : painted red
- **Temperature Range** : up to +250°C
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : WLL indicated hereunder are given in the worst conditions of use, i.e. 90°

part-number	working load limit	diameter thread	width inside	length inside	dia-meter	length	thick-ness base	width out-side	dia-meter base	dia-meter base	length inside	Hex Key	Torque value	weight each
		a	b	c	d	e	f	g	h	i	j			
	t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	kg
ADA08	0.4	M 8 x 1.25	35	41	13	18	35	68	34	38	43	6	6.5	0.43
ADA10	0.7	M10 x 1.5	35	39	13	18	37	68	34	38	43	8	13	0.44
ADA12	1	M12 x 1.75	35	36	13	22	39	68	34	38	43	10	22	0.46
ADA14	1.3	M14 x 2.0	35	35	13	22	42	68	34	38	43	12	35	0.47
ADA16	1.6	M16 x 2.0	35	42	13	28	43	68	34	38	52	14	55	0.52
ADA18	2	M18 x 2.5	35	40	13	28	45	68	34	38	52	14	80	0.54
ADA20	2.5	M20 x 2.5	35	38	13	32	47	68	34	38	52	17	110	0.59
ADA22	3	M22 x 2.5	53	57	20	33	69	105	49	56	71	17	150	1.88
ADA24	4	M24 x 3.0	53	55	20	39	71	105	49	56	71	19	190	1.93
ADA27	5	M27 x 3.0	53	61	20	36	65	105	49	56	71	19	280	1.96
ADA30	6.3	M30 x 3.5	53	61	20	45	65	105	49	56	71	19	380	2.03
ADA33	7	M33 x 3.5	71	87	30	54	83	146	68	77	98	19	520	5.28
ADA36	10	M36 x 4.0	71	87	30	54	84	146	68	77	98	19	600	5.35
ADA39	10	M39 x 4.0	71	87	30	54	84	146	68	77	98	19	870	5.45
ADA42	12.5	M42 x 4.5	71	87	30	63	84	146	68	77	98	19	1000	5.56

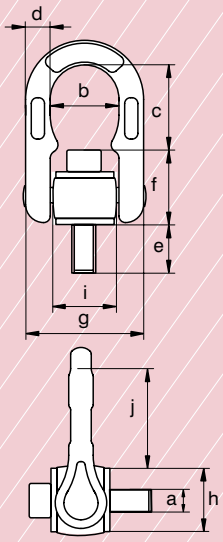


ADAUNC

EXCEL® Rotating hoist ring UNC, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : painted red
- **Temperature Range** : up to +250°C
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : WLL indicated hereunder are given in the worst conditions of use, i.e. 90°

partnumber	working load limit	diameter thread	width inside	length inside	dia-meter	length	thick-ness base	width out-side	dia-meter base	dia-meter base	length inside	Hex Key	Torque value	weight each
		a	b	c	d	e	f	g	h	i	j			
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	kg
ADA08UNC	0.4	5/16 - 18 UNC	35	41	13	18	35	68	34	38	43	6	6.5	0.43
ADA10UNC	0.6	3/8 - 16 UNC	35	39	13	18	37	68	34	38	43	8	13	0.44
ADA12UNC	1	1/2 - 13 UNC	35	36	13	22	39	68	34	38	43	10	22	0.46
ADA16UNC	1.7	5/8 - 11 UNC	35	42	13	28	43	68	34	38	52	13	55	0.52
ADA20UNC	2.5	3/4 - 10 UNC	35	38	13	32	47	68	34	38	52	14	110	0.59
ADA22UNC	3.5	7/8 - 9 UNC	53	57	20	33	69	105	49	56	71	14	150	1.88
ADA24UNC	4.5	1 - 8 UNC	53	55	20	39	71	105	49	56	71	16	190	1.93

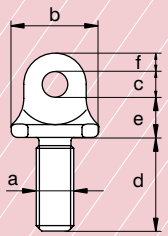


ADAL

EXCEL® Rotating hoist ring longer length, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : painted red
- **Temperature Range** : up to +250°C
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : WLL indicated hereunder are given in the worst conditions of use, i.e. 90°

partnumber	working load limit	diameter thread	width inside	length inside	dia-meter	length	thick-ness base	width out-side	dia-meter base	dia-meter base	length inside	Hex Key	Torque value	weight each
		a	b	c	d	e	f	g	h	i	j			
	t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	kg
ADA08L52	0.4	M 8 x 1.25	35	41	13	52	35	68	34	38	43	6	6.5	0.46
ADA08L92	0.4	M 8 x 1.25	35	41	13	92	35	68	34	38	43	6	6.5	0.47
ADA10L62	0.7	M10 x 1.5	35	39	13	62	37	68	34	38	43	8	13	0.47
ADA10L125	0.7	M10 x 1.5	35	39	13	125	37	68	34	38	43	8	13	0.5
ADA12L62	1	M12 x 1.75	35	36	13	62	39	68	34	38	43	10	22	0.49
ADA12L125	1	M12 x 1.75	35	36	13	125	39	68	34	38	43	10	22	0.53
ADA16L92	1.6	M16 x 2.0	35	42	13	92	43	68	34	38	52	14	55	0.6
ADA16L172	1.6	M16 x 2.0	35	42	13	172	43	68	34	38	52	14	55	0.71
ADA20L112	2.5	M20 x 2.5	35	38	13	112	47	68	34	38	52	17	110	0.75
ADA20L172	2.5	M20 x 2.5	35	38	13	172	47	68	34	38	52	17	110	0.87
ADA24L112	4	M24 x 3.0	53	55	20	112	71	105	49	56	71	19	190	2.16
ADA24L172	4	M24 x 3.0	53	55	20	172	71	105	49	56	71	19	190	2.33
ADA27L90	5	M27 x 3.0	53	61	20	90	65	105	49	56	71	19	280	2.2
ADA30L90	6.3	M30 x 3.5	53	61	20	90	65	105	49	56	71	19	380	2.27
ADA30L240	6.3	M30 x 3.5	53	61	20	240	65	105	49	56	71	19	380	3.05
ADA36L110	10	M36 x 4.0	71	87	30	110	84	146	68	77	98	19	600	5.72
ADA42L120	12.5	M42 x 4.5	71	87	30	120	84	146	68	77	98	19	1000	6.07



OL

EXCEL® Small lifting eye, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter thread	diameter base	diameter eye inside	length	thickness base	width	Can be combined with	weight each
		a	b	c	d	e	f		
	t	mm	mm	mm	mm	mm	mm		kg
OL8R	0.5	M 8 x 1.25	28	8	30	13	6	XLC05, XLC0, CO5, CO6, MP5, MP6, CSC5, CSC6	0.05
OL10R	0.9	M10 x 1.50	28	8	30	13	6		0.05
OL12R	1.25	M12 x 1.75	28	8	30	13	6		0.06
OL14R	1.5	M14 x 2.00	32	9	46	16	10	XLC1, CO7/8, MP7/8, CSC7/8	0.12
OL16R	1.9	M16 x 2.00	32	9	46	16	10		0.14
OL18R	2.25	M18 x 2.50	32	9	46	16	10		0.15
OL20R	3.12	M20 x 2.50	41	13	56	19	11	XLC2, CO10, MP10, CSC10	0.25
OL22R	3.8	M22 x 2.50	41	13	56	19	11		0.27
OL24R	5	M24 x 3.00	54	16	68	28	12	XLC3, CO13, MP13, CSC13	0.53
OL27R	6.25	M27 x 3.00	54	16	68	28	12		0.68
OL30R	8	M30 x 3.50	60	20	92	33	13	XLC4, CO16, MP16, CSC16	0.94
OL33R	9	M33 x 3.50	60	20	92	33	13		1.03
OL36R	10	M36 x 4.00	60	20	92	33	13		1.12
OL39R	12.5	M39 x 4.00	75	24	105	39	19	XLC5, CO18/20, MP18/20, CSC18/20	1.9
OL42R	15	M42 x 4.50	75	24	105	39	19		2.02

Example combinations with OL:

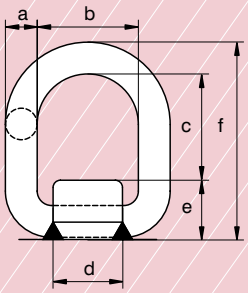
OL + XLC

OL + CO

OL + MP

OL + CSC

EXCEL®



PAS

Weld-on transport ring

- **Material** : base: mild steel, ring: alloy steel
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity
- **Note** : welding must be done in accordance with DIN 5817 resp. 15429, by a qualified welder according to EN 287-1

partnumber	working load limit	diameter	width inside	length inside	length base	height base	length	weight each
		a	b	c	d	e	f	
	t	mm	mm	mm	mm	mm	mm	kg
PAS1	1.2	13	40	42	35	28	84	0.4
PAS3	3.2	18	45	48	42	33	101	0.77
PAS5	5.3	22	55	57	49	44	123	1.42
PAS8	8	26	70	67	64	51	145	2.5
PAS12	12.8	28	85	90	78	55	173	3.7
PAS15	15	34	99	93	90	63	191	5.67

Swivels

Applications:

Swivels are used to prevent wire rope or chain from transferring their normal twisting motion to the item being lifted. EXCEL® swivels are designed to rotate under load.

Range:

Van Beest offers two types of swivels. Both are equipped with needle bearings.

Design:

The EXCEL® swivels are drop forged. The swivels do not need grease during use.

These components are generally stamped with following markings:

manufacturer's identification symbol	EXCEL
traceability code	e.g. AB, pertaining to a particular batch
steel grade	8
CE conformity code	CE, Conformité Européen
item code	e.g. ECA
chain diameter in mm and/or inch	e.g. 13 and/or 1/2"

Finish:

The grade 8 swivels are powder coated in red.

Certification:

Upon request, all swivels can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of conformity.

Instructions for use:

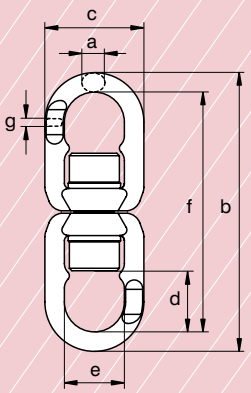
Swivels should be inspected before use to ensure that:

- all markings are legible
- swivels are free from nicks, gouges, cracks and corrosion
- a swivel with the correct Working Load Limit has been selected with respect to the sling design i.e. the load to be lifted, the number of legs in the sling, the top angle etc. For further details, we refer to EN818, norm for chain slings
- swivels may not be heat treated as this may affect their Working Load Limit
- never modify, repair or reshape a swivel by machining, welding, heating or bending as this may affect the Working Load Limit
- swivels and the other components are all identifiable as being of the same steel grade
- swivels are not distorted or unduly worn
- swivels must be used for straight or in line lifting only

It is required that the products are regularly inspected and that the inspection should take place minimally 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. with a consequence of deformation and alteration of the material structure.
Inspection by a competent person should take place at least every six months and even more frequently when the swivels are used in severe operating conditions.

Assembly :

The clevis ends can be directly connected to the corresponding lifting chain. For eye ends, a connector like a connecting link can be used.

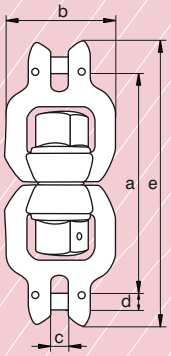


ELR

EXCEL® Needle bearing swivel, Eye-Eye, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : equipped with two needle roller thrust bearings to enable rotation under load

partnumber	working load limit	diameter	length outside	width outside	length inside	width inside	length	thickness	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
ELR0R	1.12	11	150	56	33	32	126	6	0.61
ELR1R	2	14	181	65	40	37	153	8	1.07
ELR2R	3.2	18	226	79	47	48	195	11	1.9
ELR3R	5.4	20	268	96	59	58	227	14	3.17
ELR4R	8.2	23	331	121	67	73	281	17	6.44
ELR5R	12.8	28	378	132	88	82	328	22	7.75



ECA

EXCEL® Needle bearing swivel, Clevis-Clevis, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : equipped with two needle roller thrust bearings

partnumber	working load limit	for chain diameter		length inside	width outside	width	diameter pin	length outside	weight each
				a	b	c	d	e	
	t	inch	mm	mm	mm	mm	mm	mm	kg
ECA5R	0.8	3/16	5	109	56	7	6	137	0.6
ECA6R	1.12	7/32	6	111	56	7	8	137	0.6
ECA7/8R	2	1/4-5/16	7-8	129	65	9	9	162	1.08
ECA10R	3.2	3/8	10	161	80	11	13	207	1.94
ECA13R	5.4	1/2	13	180	96	14	16	240	3.3
ECA16R	8.2	5/8	16	246	121	18	20	317	6.85

Webbing components

Applications:

In circumstances where a web sling must be used, the choice of appropriate webbing components is recommended.

Range:

Van Beest offers hooks (CST and XLS) and connectors (COS, MJS and COC) designed to suit web slings.

Design:

Webbing items supplied by Van Beest are all manufactured from alloy steel in a grade 8 quality.

These components are generally stamped with following markings:

manufacturer's identification symbol	EXCEL
traceability code	e.g. AB, pertaining to a particular batch
steel grade	8
CE conformity code	CE, Conformité Européen
item code	e.g. CST
chain diameter in mm and/or inch	e.g. 13 and/or 1/2"
origin	FRANCE

Finish:

The webbing hooks and connectors are powder coated in yellow or red.

Certification:

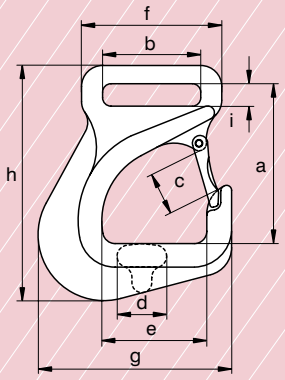
Upon request, these hooks and connectors can be supplied with a works certificate and/or EC Declaration of conformity.
Most of these items can also be supplied with a 3.1 material certificate.

Instructions for use:

All webbing products should be inspected before use to ensure that :

- all markings are legible
- all items are free from nicks, gouges, cracks and corrosion
- items with the correct Working Load Limit have been selected with respect to the sling design i.e. the load to be lifted, the number of legs in the sling, the top angle etc. For further details, we refer to EN818, norm for chain slings
- items may not be heat treated as this may affect their Working Load Limit
- never modify, repair or reshape a an item by machining, welding, heating or bending as this may affect the Working Load Limit
- all items of the sling are all identifiable as being of the same steel grade
- items are not distorted or unduly worn
- for the web slings, we refer to the user manual supplied by the manufacturer of these slings

It is required that the products are regularly inspected and that the inspection should take place minimally 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. with a consequence of deformation and alteration of the material structure.
Inspection by a competent person should take place at least every six months and even more frequently when the components are used in severe operating conditions.

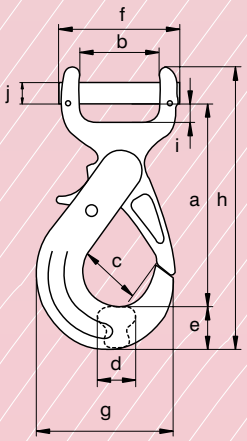


CST

EXCEL® Flat web sling hook, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	length	inside width eye	width opening	thickness	width inside	width outside	width outside	length outside	width inside	weight each
		a	b	c	d	e	f	g	h	i	
	t	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CST75J	3	132	79	34	40	75	113	148	199	25	2.63



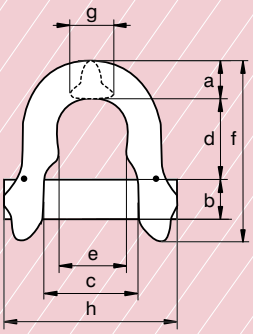
XLS

EXCEL® Flat web sling self locking hook, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

part-number	working load limit	length	width	width opening	thickness	width	width outside	width outside	length outside	length inside	diameter pin	weight each
		a	b	c	d	e	f	g	h	i	j	
	t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
XLS60J	2	161	62	47	32	35	94	111	222	18	16	2.11

EXCEL®



COS

EXCEL® Round web sling connector, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or Declaration of Conformity

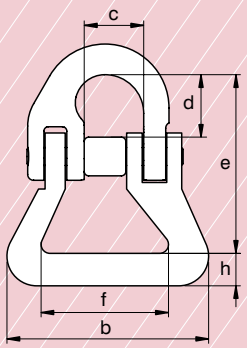
partnumber	working load limit	width	diameter pin	width	length inside	width inside	length outside	thickness	width outside	weight each
		a	b	c	d	e	f	g	h	
	t	mm	mm	mm	mm	mm	mm	mm	mm	kg
COS60J	2	14	9	33	35	23	66	15	59	0.18
COS90J	3.2	18	13	44	45	30	86	20	75	0.37
COS150J	5.4	22	16	57	59	38	107	25	94	0.72
COS240J	8.2	28	20	70	72	48	133	31	117	1.35

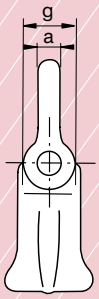
Example combinations with COS:

MS + CO + COS

COS + XLC

COS + CSC



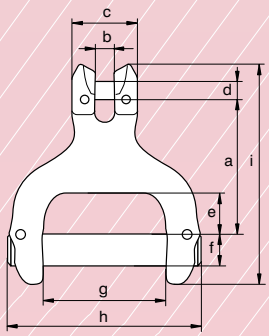


MJS

EXCEL® Round web sling connecting link, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		diameter	width outside	width inside	length inside	length	width inside	diameter eye	thick-ness	weight each
				a	b	c	d	e	f	g	h	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
MJS7/8J or R	2	1/4-5/16	7-8	9	66	19	21	61	40	14	14	0.32
MJS10J or R	3.2	3/8	10	12	76	25	24	74	45	19	15	0.54
MJS13J or R	5.4	1/2	13	16	87	30	30	91	51	24	19	1.09



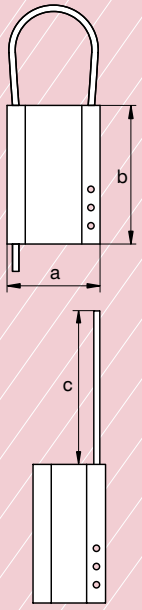
COC

EXCEL® Flat web sling to chain connector, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J)
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	work-ing load limit	for chain diameter		length	width	width outside	diameter pin	length inside	diameter pin	width	width outside	length outside	width	width each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
COC60J	2	1/4-5/16	7-8	65	9	32	9	20	16	60	94	107	32	0.68

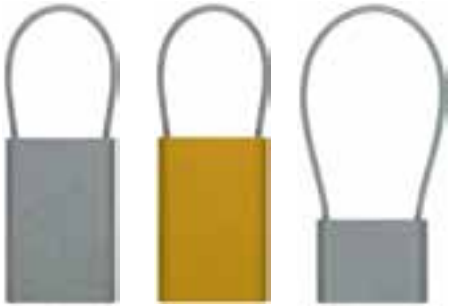
EXCEL®



TAG

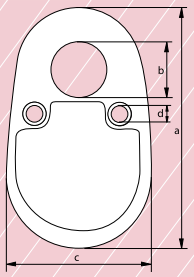
EXCEL® Identification tag

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



TAGVIERGE TAGJ TAGDEMI

partnumber	finish	width	length	length	weight each
		a	b	c	
		mm	mm	mm	kg
TAGVIERGE	self coloured	51	76	222	0.06
TAGB w/out wire rope	self coloured	51	76	222	0.06
TAGJ	anodized yellow	51	76	222	0.06
TAGDEMI	self coloured	51	38	260	0.04

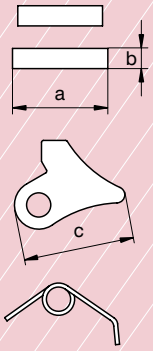


TAGRFID

EXCEL® RFID Tag

- **Material** : stainless steel
- **Finish** : polymer
- **Note** : contains a high frequency 13.56 MHz iCode ISO 15693 compliant chip with individual serial number

partnumber	length	width	diameter	diameter	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
TAGRFIDEXCEL	53	33	12	4	0.02



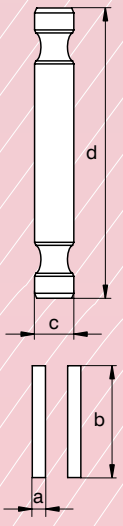
VR

EXCEL® Replacement kit for self locking hooks for grade 8 and grade 10

- **Material** : steel
- **Finish** : self coloured
- **Certification** : at no extra charge this product can be supplied with a works certificate
- **Note** : plastic tube included, to make assembly easier

partnumber	length pin	diameter pin	width	weight each
	a	b	c	
	mm	mm	mm	kg
VR1	22	6	28	0.02
VR2	26	6	31	0.03
VR3	32	8	37	0.05
VR4	40	10	47	0.1
VR5	55	10	58	0.18

partnumber	for fitting												
	GKO	XLO	UXLO	GKC	XLC	UXLC	GKE	XLE	UXLE	XLBA	XLR	UXLR	XLS
VR1	GKO1	XLO0	UXLO0	GKC1	XLC0	UXLC0	GKE1	XLE0	UXLE0	XLBA0			
VR2	GKO2	XLO1	UXLO1	GKC2	XLC1	UXLC1	GKE2	XLE1	UXLE1	XLBA1	XLR7/8	UXLR8	
VR3	GKO3	XLO2	UXLO2	GKC3	XLC2	UXLC2	GKE3	XLE2	UXLE2	XLBA2	XLR10	UXLR10	XLS60
VR4	GKO4	XLO3	UXLO3	GKC4	XLC3	UXLC3	GKE4	XLE3	UXLE3	XLBA3	XLR13	UXLR13	
VR5	GKO5 GKO6	XLO4 XLO5	UXLO4	GKC5 GKC6	XLC4 XLC5	UXLC4	GKE5 GKE6	XLE4 XLE5	UXLE4	XLBA4			



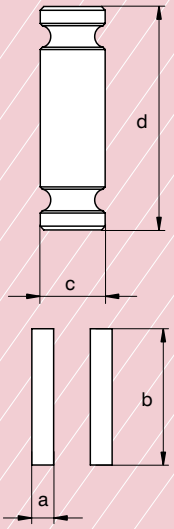
RCOS

EXCEL® Spare kit for clevis for web sling connector

- **Material** : alloy steel, grade 8, quenched and tempered
- **Finish** : self coloured
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
RCOS7/8	3	22	9	58	0.03
RCOS10	4	24	13	74	0.08
RCOS13	4	32	16	94	0.15
RCOS16	5	35	20	116	0.25

partnumber	for fitting		
	COS	XLS	COC
RCOS7/8	COS60		
RCOS10	COS90		
RCOS13	COS150	XLS60	COC60
RCOS16	COS240		



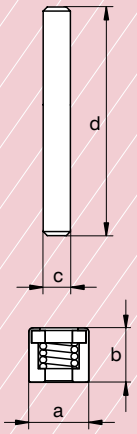
AC

EXCEL® Spare kit for clevis fittings, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Finish** : self coloured
- **Certification** : at no extra charge this product can be supplied with a works certificate
- **Note** : AC7 is suitable for 8 mm clevis components and fits 7 mm hoist chain

partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
AC5	3	14	6	28	0.01
AC6	3	14	8	28	0.01
AC7	3	22	8	32	0.02
AC7/8	3	22	9	32	0.02
AC10	4	24	13	41	0.04
AC13	4	32	16	53	0.08
AC16	5	35	20	66	0.16
AC18/20	6	45	24	80	0.28
AC22	8	50	28	95	0.4

partnumber	for fitting												
	MP	**CO**	**CSC**	**CSEC**	**CSECA**	**XLC**	**GKC**	**GC**	**GCV**	**CRC**	**XLBA**	**ECA**	**COC**
AC5	MP5	CO5	CSC5	CSEC5		XLC05					XLBA05	ECA5	
AC6	MP6	CO6	CSC6	CSEC6		XLC0		GC6	GCV6		XLBA0	ECA6	
AC7	MP7/8	CO7/8	CSC7/8	CSEC7/8		XLC1	GKC1	GC7/8	GCV8	CRC7/8	XLBA1	ECA8	COC60
AC7/8	MP7/8	CO7/8	CSC7/8	CSEC7/8		XLC1	GKC1	GC7/8	GCV8	CRC7/8	XLBA1	ECA7/8	COC60
AC10	MP10	CO10	CSC10	CSEC10		XLC2	GKC2	GC10	GCV10	CRC10	XLBA2	ECA10	
AC13	MP13	CO13	CSC13	CSEC13		XLC3	GKC3	GC13	GCV13	CRC13	XLBA3	ECA13	
AC16	MP16	CO16	CSC16		CSECA16	XLC4	GKC4	GC16	GCV16	CRC16	XLBA4	ECA16	
AC18/20	MP18/20	CO18/20	CSC18/20			XLC5	GKC5	GC18/20	GCV20				
AC22			CSC22				GKC6						



RMJ

EXCEL® Spare kit for connecting link, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Finish** : self coloured
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	diameter	width	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
RMJ6	12	10	5	41	0.01
RMJ7/8	13	14	6	54	0.01
RMJ10	16	18	8	66	0.02
RMJ13	22	22	10	84	0.05
RMJ16	25	25	12	105	0.1
RMJ18/20	28	32	15	122	0.15
RMJ22	32	35	17	141	0.38
RMJ26	38	40	20	169	0.63
RMJ32	45	50	22	199	1

partnumber	for fitting	
	MJ	MJS
RMJ6	MJ6	
RMJ7/8	MJ7/8	MJS7/8
RMJ10	MJ10	MJS10
RMJ13	MJ13	MJS13
RMJ16	MJ16	
RMJ18/20	MJ18/20	
RMJ22	MJ22	
RMJ26	MJ26	
RMJ32	MJ32	

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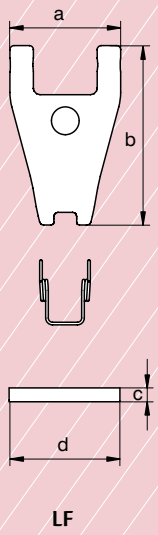


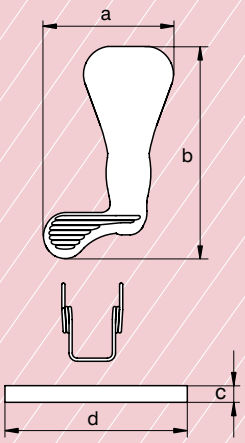
LF

EXCEL® Forged latch for grade 8

- **Material** : steel
- **Finish** : painted yellow (J) or red (R), LF7 and LF8 are self coloured
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	width	length	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
LF0J or R	24	44	4	24	0.04
LF1J or R	31	59	5	30	0.05
LF2J or R	41	65	5	40	0.1
LF3J or R	41	79	6	40	0.2
LF4J or R	46	81	6	45	0.3
LF5J or R	50	100	8	50	0.4
LF6J or R	55	119	10	55	0.6
LF7	51	117	8	68	0.19
LF8	60	141	8	74	0.26

partnumber	for fitting						
	CSO	CSC	CSE	CSEC	CSECA	GH	CST
LF0J or R	CSO5/6	CSC5 CSC6	CSE5/6	CSEC5 CSEC6		GH0.75	
LF1J or R	CSO7/8	CSC7/8	CSE7/8	CSEC7/8		GH1-GH2-GH3	CST75
LF2J or R	CSO10	CSC10	CSE10	CSEC10		GH4	
LF3J or R	CSO13	CSC13	CSE13	CSEC13		GH5-8	
LF4J or R	CSO16	CSC16	CSE16		CSECA16		
LF5J or R	CSO18/20	CSC18/20	CSE18/20			GH10	
LF6J or R	CSO22	CSC22				GH15	
LF7	CSO26						
LF8	CSO32						



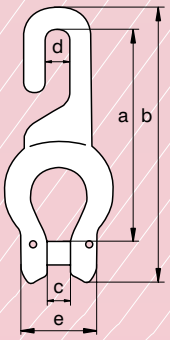
VCR

EXCEL® Replacement kit for shortening self locking hook, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	width	length	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
VCR7/8J or R	30	51	4	40	0.03
VCR10J or R	39	67	5	55	0.04
VCR13J or R	47	79	6	60	0.05

partnumber	for fitting
	XLR
VCR7/8J or R	XLR7/8
VCR10J or R	XLR10
VCR13J or R	XLR13



AXLR

EXCEL® Locking kit for grade 8 shortening self locking hook

- **Material** : alloy steel
- **Finish** : painted yellow (J) or red (R)
- **Certification** : at no extra charge this product can be supplied with a works certificate
- **Note** : not suitable for lifting

partnumber	length	length	width	width	width outside	weight each
	a	b	c	d	e	
	mm	mm	mm	mm	mm	kg
AXLR7/8J or R	99	127	9	11	33	0.2
AXLR10J or R	115	151	11	13	42	0.31
AXLR13J or R	144	192	15	15	55	0.7

partnumber	for fitting
	XLR
AXLR7/8J or R	XLR7/8
AXLR10J or R	XLR10
AXLR13J or R	XLR13

Grade 10 products

Applications :

Grade 10 offers a lifting capacity which is 25 % greater than the grade 8, for a comparable chain size. For many applications a smaller chain size can be chosen. This results in lighter, easier to handle chain slings.

Range :

Van Beest offers a wide range of grade 10 items in order to assemble a complete sling from the top master link to the hooks. The range extends from 6 mm up to 16 mm. (7/32" up to 5/8").

Design :

Grade 10 items supplied by Van Beest are all manufactured from alloy steel. All grade 10 items have an equivalent in a grade 8 quality.

These components are generally stamped with following markings:

manufacturer's identification symbol	EXCEL
traceability code	e.g. AB, pertaining to a particular batch
CE conformity code	CE, Conformité Européen
item code	e.g. UMP
chain diameter in mm and/or inch	e.g. 13 and/or 1/2"
origin	FRANCE

Finish :

The grade 10 hooks are powder coated in blue.

Certification :

Upon request, all the grade 10 items can be supplied with a works certificate and/or EC Declaration of conformity.
Some items can also be supplied with a manufacturer test certificate and/or a 3.1 material certificate.
We refer to the detailed product information on the next pages.

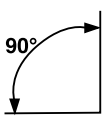
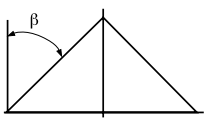
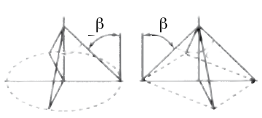
Instructions for use :

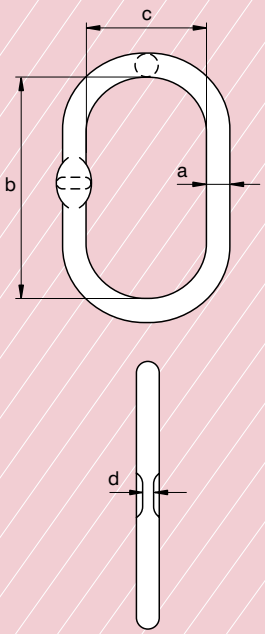
In general all grade 10 components should be inspected before use to ensure that:

- all markings are legible
- all items are free from nicks, gouges, cracks and corrosion
- items with the correct Working Load Limit have been selected with respect to the sling design i.e. the load to be lifted, the number of legs in the sling, the top angle etc. For further details, we refer to EN818, norm for chain slings
- items may not be heat treated as this may affect their Working Load Limit
- never modify, repair or reshape an item by machining, welding, heating or bending as this may affect the Working Load Limit
- master links and the other items of the sling are all identifiable as being of the same steel grade
- items should be used for straight in line loading only, this in order to avoid bending
- items are not distorted or unduly worn

It is required that the products are regularly inspected and that the inspection should take place minimally 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. with a consequence of deformation and alteration of the material structure.
Inspection by a competent person should take place at least every six months and even more frequently when the components are used in severe operating conditions.

Working Load Limit table for Grade 10 Chain Slings

Chain Ø							
		1 leg sling	2 leg sling		3 or 4 leg sling		Endless sling
			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
inch	mm	t	t	t	t	t	t
7/32	6	1.40	1.95	1.40	2.95	2.10	2.24
5/16	8	2.50	3.55	2.50	5.30	3.75	4.00
3/8	10	4.00	5.65	4.00	8.50	6.00	6.40
1/2	13	6.70	9.45	6.70	14.00	10.00	10.70
5/8	16	10.00	14.10	10.00	21.20	15.00	16.00
3/4	20	16.00	22.40	16.00	33.60	24.00	25.60
7/8	22	19.00	26.50	19.00	40.00	28.00	30.40

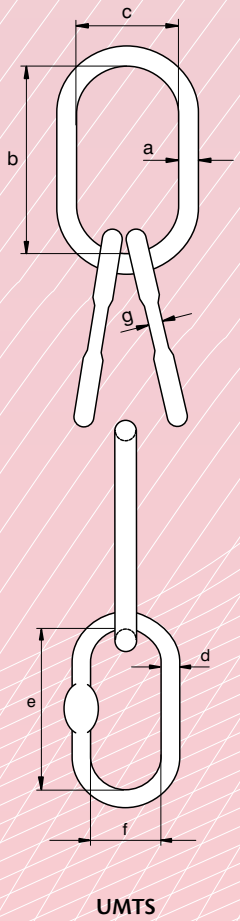


UMS

EXCEL® Master link, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, and/or EC Declaration of Conformity

partnumber	working load limit	diameter chain 1 leg		diameter chain 2 legs				dia-meter	length inside	width inside	thick-ness	weight each
				ß ≤ 45°		ß ≤ 60°		a	b	c	d	
	t	inch	mm	inch	mm	inch	mm	mm	mm	mm	mm	kg
UMS13	2	7/32	6	7/32	6	7/32	6	13	100	60	7	0.33
UMS16	3.2	5/16	8	-	-	5/16	8	16	120	70	7	0.56
UMS18	5.4	3/8	10	5/16	8	3/8	10	18	135	75	9	0.8
UMS22	8.2	1/2	13	3/8	10	1/2	13	22	170	90	11	1.47
UMS25	11.2	5/8	16	1/2	13	5/8	16	25	190	105	13	2.34
UMS30	16	3/4	18-20	5/8	16	3/4	18-20	30	235	125	17	3.82



UMTS

EXCEL® Master link assembly, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter chain 3/4 legs				dia-meter	length inside	width inside	dia-meter	length inside	width inside	thick-ness	weight each
		ß ≤ 45°		ß ≤ 60°		a	b	c	d	e	f	g	
	t	inch	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
UMTS18	3.5	7/32	6	7/32	6	18	135	75	16	100	60	7	1.75
UMTS22	6.5	5/16	8	5/16-3/8	8-10	22	170	90	18	120	70	9	2.91
UMTS28	11	3/8	10	1/2	13	28	210	115	20	120	70	11	4.74
UMTS36	17.5	1/2	13	5/8	16	36	270	150	25	135	75	13	9.6
UMTS38	21.2	5/8	16	3/4	18-19	38	285	160	30	170	95	16	13.38

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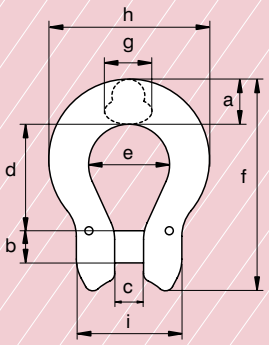
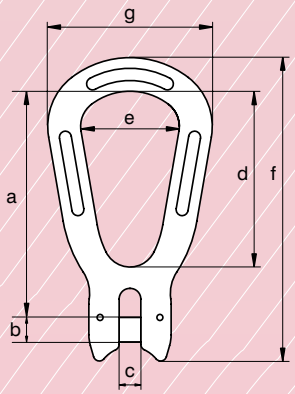


UCO

EXCEL® Omega link, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		width	diameter pin	width	length inside	width bow	length outside	thickness	width outside	width outside	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
UCO6	1.4	7/32	6	11	8	7	24	19	50	9	39	28	0.07
UCO8	2.5	5/16	8	18	10	9	32	23	70	16	53	32	0.18
UCO10	4	3/8	10	18	13	11	40	30	81	17	61	42	0.28
UCO13	6.7	1/2	13	23	16	14	50	39	104	20	80	54	0.64
UCO16	10	5/8	16	30	20	17	63	47	130	25	100	68	1.21

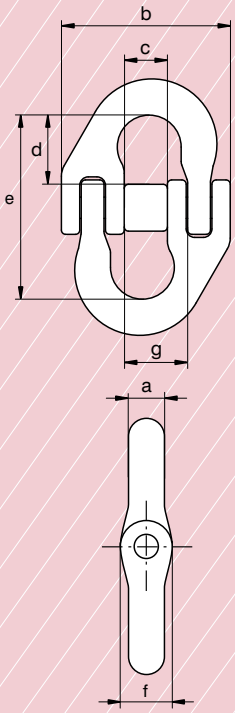


UMP

EXCEL® Pear shaped link, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length inside	diameter pin	width	length nside	width inside	length	width outside	weight each
				a	b	c	d	e	f	g	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
UMP6	1.4	7/32	6	79	8	7	63	32	105	54	0.14
UMP8	2.5	5/16	8	88	10	8	70	40	121	69	0.28
UMP10	4	3/8	10	109	13	11	86	49	151	84	0.63
UMP13	6.7	1/2	13	147	16	14	116	66	200	112	1.4
UMP16	10	5/8	16	182	20	17	146	84	249	142	2.72

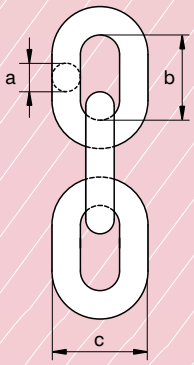


UMJ

EXCEL® Connecting link, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or a EC Declaration of Conformity

partnumber	working load limit	for chain diameter		diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
				a	b	c	d	e	f	g	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
UMJ6	1.4	7/32	6	8	42	11	20	52	11	15	0.09
UMJ8	2.6	5/16	8	9	54	14	21	55	16	19	0.18
UMJ10	4	3/8	10	12	66	18	24	64	18	25	0.31
UMJ13	6.8	1/2	13	16	83	21	31	85	24	29	0.68
UMJ16	10.3	5/8	16	19	103	25	40	105	28	36	1.27



UCHAIN

Lifting chain, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, manufacturer test certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter		length inside	width outside	links per meter	length per drum	weight per mtr
		a		b	c			
	t	inch	mm	mm	mm		m	kg
UCHAIN6	1.4	7/32	6	18	22	55.56	200	0.8
UCHAIN8	2.5	5/16	8	24	30	41.67	200	1.5
UCHAIN10	4	3/8	10	30	36	33.33	200	2.3
UCHAIN13	6.7	1/2	13	39	48	25.64	100	3.9
UCHAIN16	10	5/8	16	48	58	20.83	100	5.8

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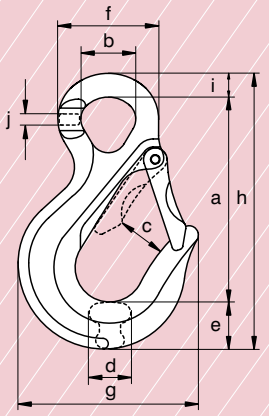
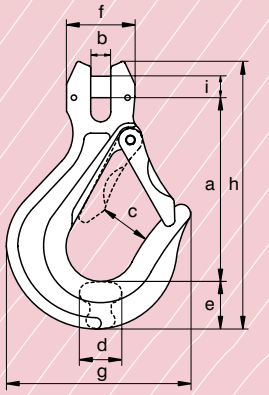


UCSO

EXCEL® Eye sling hook, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : from 10 t without flat part

partnumber	working load limit	for chain diameter		length	diameter inside eye	width opening	thickness	width	diameter eye outside	width outside	length	width	thickness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
UCSO6	1.4	7/32	6	86	23	27	15	19	43	73	115	10	7	0.30
UCSO8	2.5	5/16	8	102	26	27	19	23	51	87	137	13	8	0.56
UCSO10	4	3/8	10	121	35	28	23	29	66	106	165	16	11	1.02
UCSO13	6.7	1/2	13	155	41	33	31	36	76	136	208	19	14	1.79
UCSO16	10	5/8	16	185	48	46	34	43	92	159	252	22	17	2.89

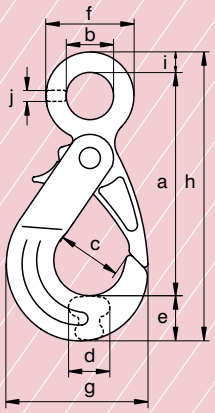


UCSC

EXCEL® Clevis sling hook, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width	width opening	thickness	width	width outside	width outside	length outside	diameter pin	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
UCSC6	1.4	7/32	6	76	7	27	15	19	28	73	108	8	0.29
UCSC8	2.5	5/16	8	95	9	30	20	22	32	85	133	10	0.54
UCSC10	4	3/8	10	113	11	33	24	28	42	106	164	13	1.11
UCSC13	6.7	1/2	13	138	15	35	32	40	54	133	208	16	2.12
UCSC16	10	5/8	16	161	18	43	40	44	67	165	240	20	3.78

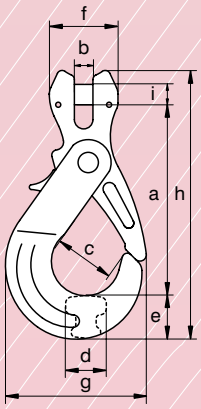


UXLO

EXCEL® Eye self locking hook, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or Declaration of Conformity

partnumber	working load limit	for chain diameter		length	diameter inside eye	width opening	thickness	width	width outside	width outside	length	width	thickness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
UXLO0	1.4	7/32	6	111	24	32	16	26	47	77	147	11	7	0.51
UXLO1	2.5	5/16	8	134	29	43	23	29	57	92	176	14	7	0.91
UXLO2	4	3/8	10	168	35	47	32	35	69	111	219	17	10	1.79
UXLO3	6.7	1/2	13	199	46	61	37	45	87	142	264	20	13	3.36
UXLO4	10	5/8	16	247	59	74	43	56	111	185	328	26	16	7



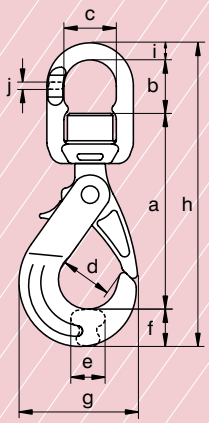
UXLC

EXCEL® Clevis self locking hook, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width	width opening	thick-ness	width	width outside	width outside	length	diameter pin	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
UXLC0	1.4	7/32	6	92	7	32	16	26	28	77	131	8	0.49
UXLC1	2.5	5/16	8	116	9	43	23	29	32	92	161	10	0.91
UXLC2	4	3/8	10	143	11	47	32	35	42	111	200	13	1.77
UXLC3	6.7	1/2	13	167	14	61	37	45	54	142	242	16	3.33
UXLC4	10	5/8	16	201	18	74	43	54	68	185	293	20	6.75

EXCEL®

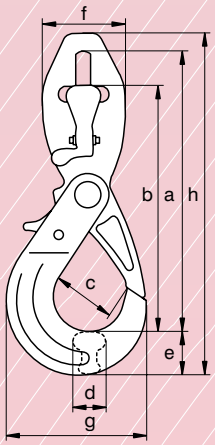


UXLE

EXCEL® Swivel self locking hook, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

part-number	work-ing load limit	for chain diameter		length	length inside	width inside	width open-ing	thick-ness	width	width outside	length	dia-meter	thick-ness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
UXLE0	1.4	7/32	6	122	32	32	32	16	26	77	192	12	6	0.78
UXLE1	2.5	5/16	8	148	39	37	43	23	29	92	231	14	8	1.39
UXLE2	4	3/8	10	183	46	48	47	32	35	111	282	16	11	2.56
UXLE3	6.7	1/2	13	214	57	58	61	37	45	142	336	21	14	4.56
UXLE4	10	5/8	16	269	65	73	74	39	56	185	416	25	17	9.37

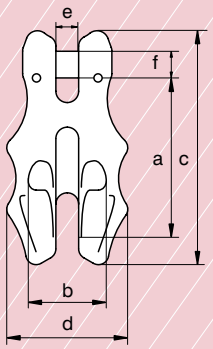


UXLR

EXCEL® Shortening self locking hook, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : supplied with chain stopper UAXLR

partnumber	working load limit	for chain diameter		length	length	width opening	thick-ness	width	width outside	width outside	length	weight each
				a	b	c	d	e	f	g	h	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
UXLR8	2.5	5/16	8	170	143	43	23	29	51	92	211	1.35
UXLR10	4	3/8	10	218	187	47	32	35	64	111	267	2.58
UXLR13	6.7	1/2	13	257	217	61	37	45	83	142	320	4.87

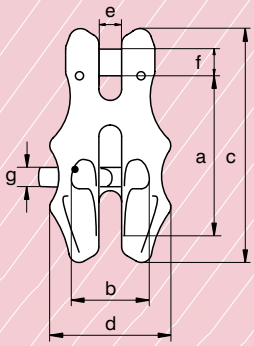


UGC

EXCEL® Shortening clutch, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width inside	length	width outside	width	diameter pin	weight each
				a	b	c	d	e	f	
	t	inch	mm	mm	mm	mm	mm	mm	mm	kg
UGC6	1.4	7/32	6	54	22	75	42	7	8	0.22
UGC8	2.5	5/16	8	69	30	94	50	8	10	0.41
UGC10	4	3/8	10	79	37	116	63	11	13	0.82
UGC13	6.7	1/2	13	105	48	149	79	14	16	1.67
UGC16	10	5/8	16	129	60	185	100	17	20	3.1



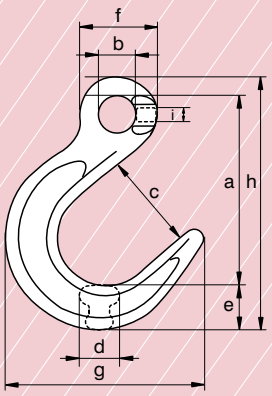
UGCV

EXCEL® Shortening clutch with locking, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width inside	length outside	width outside	width	diameter pin	diameter pin	weight each
				a	b	c	d	e	f	g	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
UGCV6	1.4	7/32	6	54	22	75	42	7	8	7	0.22
UGCV8	2.5	5/16	8	69	30	94	50	8	10	8	0.41
UGCV10	4	3/8	10	79	37	116	63	11	13	12	0.82
UGCV13	6.7	1/2	13	105	48	149	79	14	16	16	1.67
UGCV16	10	5/8	16	129	60	185	100	17	20	20	3.1

EXCEL®

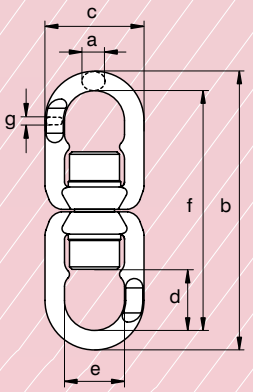


UCFO

EXCEL® Eye foundry hook, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	diameter eye inside	width opening	thickness	width	diameter eye outside	width outside	length	thickness	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
UCFO6	1.4	7/32	6	93	18	47	17	22	38	97	125	7	0.33
UCFO8	2.5	5/16	8	124	24	63	22	30	51	129	166	9	0.78
UCFO10	4	3/8	10	157	33	79	28	36	66	160	208	11	1.5
UCFO13	6.7	1/2	13	190	44	93	36	46	85	198	256	14	3

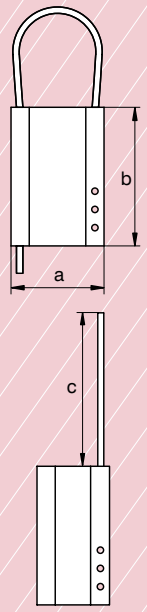


UELR

EXCEL® Needle bearing swivel, Eye-Eye, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate, a 3.1 material certificate and/or EC Declaration of Conformity
- **Note** : equipped with two needle roller thrust bearings to enable rotation under load

partnumber	working load limit	diameter	length outside	width outside	length inside	width inside	length	thickness	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
UELR0	1.4	11	150	56	33	32	126	6	0.61
UELR1	2.6	14	181	65	40	37	153	8	1.07
UELR2	4	18	226	79	47	48	195	11	1.9
UELR3	6.8	20	268	96	59	58	227	14	3.17
UELR4	10.3	23	331	121	67	73	281	17	6.44
UELR5	16	28	378	132	88	82	328	22	7.75

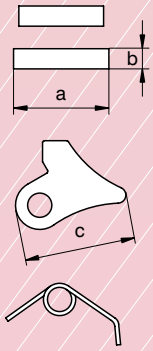


TAG

EXCEL® Identification tag

- **Material** : aluminium
- **Finish** : anodized blue

partnumber	width	length	length	weight each
	a	b	c	
	mm	mm	mm	kg
TAGBLUE	51	76	222	0.06



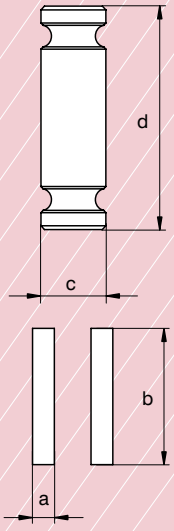
VR

EXCEL® Replacement kit for self locking hooks for grade 8 and grade 10

- **Material** : steel
- **Finish** : self coloured
- **Certification** : at no extra charge this product can be supplied with a works certificate
- **Note** : plastic tube included, to make assembly easier

partnumber	length pin	diameter pin	width	weight each
	a	b	c	
	mm	mm	mm	kg
VR1	22	6	28	0.02
VR2	26	6	31	0.03
VR3	32	8	37	0.05
VR4	40	10	47	0.1
VR5	55	10	58	0.18

partnumber	for fitting												
	GKO	XLO	UXLO	GKC	XLC	UXLC	GKE	XLE	UXLE	XLBA	XLR	UXLR	XLS
VR1	GKO1	XLO0	UXLO0	GKC1	XLC0	UXLC0	GKE1	XLE0	UXLE0	XLBA0			
VR2	GKO2	XLO1	UXLO1	GKC2	XLC1	UXLC1	GKE2	XLE1	UXLE1	XLBA1	XLR7/8	UXLR8	
VR3	GKO3	XLO2	UXLO2	GKC3	XLC2	UXLC2	GKE3	XLE2	UXLE2	XLBA2	XLR10	UXLR10	XLS60
VR4	GKO4	XLO3	UXLO3	GKC4	XLC3	UXLC3	GKE4	XLE3	UXLE3	XLBA3	XLR13	UXLR13	
VR5	GKO5 GKO6	XLO4 XLO5	UXLO4	GKC5 GKC6	XLC4 XLC5	UXLC4	GKE5 GKE6	XLE4 XLE5	UXLE4	XLBA4			



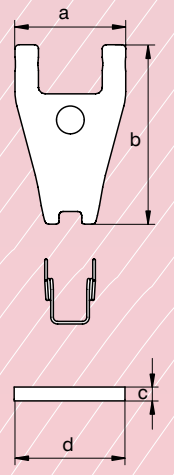
UAC

EXCEL® Spare kit for clevis fittings, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Finish** : self coloured
- **Certification** : at no extra charge this product can be supplied with a works certificate

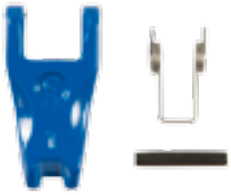
partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
UAC6	3	14	8	28	0.01
UAC8	3	22	10	32	0.02
UAC10	4	24	13	41	0.04
UAC13	4	32	16	53	0.08
UAC16	5	35	20	66	0.16

partnumber	for fitting					
	UMP	UCO	UCSC	UXLC	UGC	UGCV
UAC6	UMP6	UCO6	UCSC6	UXLC0	UGC6	UGCV6
UAC8	UMP8	UCO8	UCSC8	UXLC1	UGC8	UGCV8
UAC10	UMP10	UCO10	UCSC10	UXLC2	UGC10	UGCV10
UAC13	UMP13	UCO13	UCSC13	UXLC3	UGC13	UGCV13
UAC16	UMP16	UCO16	UCSC16	UXLC4	UGC16	UGCV16



ULF

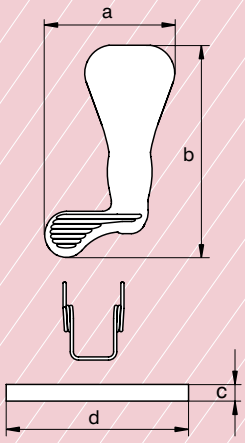
EXCEL® Forged latch for grade 10



- **Material** : steel
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	width	length	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
ULF0	24	44	4	24	0.04
ULF1	31	59	5	30	0.05
ULF2	41	65	5	40	0.1
ULF3	41	79	6	40	0.2
ULF4	46	81	6	45	0.3

partnumber	for fitting	
	UCSO	UCSC
ULF0	UCSO6	UCSC6
ULF1	UCSO8	UCSC8
ULF2	UCSO10	UCSC10
ULF3	UCSO13	UCSC13
ULF4	UCSO16	UCSC16



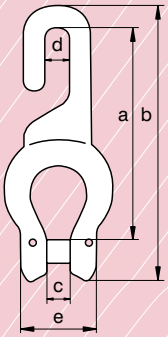
UVCR

EXCEL® Replacement kit for shortening self locking hook, grade 10

- **Material** : alloy steel, grade 10, quenched and tempered
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	width	length	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
UVCR8	30	51	4	40	0.03
UVCR10	39	67	5	55	0.04
UVCR13	47	79	6	60	0.05

partnumber	for fitting
	UXLR
UVCR8	UXLR8
UVCR10	UXLR10
UVCR13	UXLR13



UAXLR

EXCEL® Locking kit for grade 10 shortening self locking hook

- **Material** : alloy steel
- **Finish** : painted blue
- **Certification** : at no extra charge this product can be supplied with a works certificate
- **Note** : not suitable for lifting

partnumber	length	length	width	width	width outside	weight each
	a	b	c	d	e	
	mm	mm	mm	mm	mm	kg
UAXLR8	99	127	9	11	33	0.2
UAXLR10	115	151	11	13	42	0.31
UAXLR13	144	192	15	15	55	0.7

partnumber	for fitting
	UXLR
UAXLR8	UXLR8
UAXLR10	UXLR10
UAXLR13	UXLR13

Stainless steel products

Applications:

In circumstances where corrosion can cause problems, the use of stainless steel products is recommended.

Range:

Van Beest offers a wide range of stainless steel items in order to assemble a complete sling from the top master link to the hooks. The range extends from up to 6 mm to 13 mm (7/32" to 1/2").

Design:

Items supplied by Van Beest are all manufactured from stainless steel quality AISI 316 or 316L. All stainless steel items have an equivalent in a grade 8 quality. The master links, eye hooks and eye nuts have a flat part to make the assembly with the omega link (COI) easier.
CSEI swivel hooks are equipped with a stainless steel washer, they are not designed to rotate under load.

These components are generally stamped with following marks:

manufacturer's identification symbol	EXCEL
traceability code	e.g. AB, pertaining to a particular batch
CE conformity code	CE, Conformité Européen
item code	e.g. COI
chain diameter in mm and/or inch	e.g. 13 and/or 1/2"
origin	FRANCE

Finish:

Stainless steel items are generally polished.

Certification:

Upon request, all the stainless steel items can be supplied with a works certificate and/or EC Declaration of conformity. Some items can also be supplied with a manufacturer test certificate. We refer to the detailed product information on the next pages.

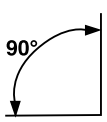
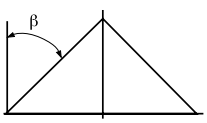
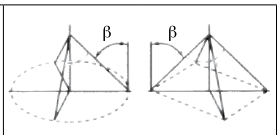
Instructions for use:

All stainless steel items should be inspected before use to ensure that:

- all markings are legible
- all items are free from nicks, gouges and cracks
- items with the correct Working Load Limit have been selected with respect to the sling design i.e. the load to be lifted, the number of legs in the sling, the top angle etc. For further details, we refer to EN818, norm for chain slings
- items may not be heat treated as this may affect their Working Load Limit
- never modify, repair or reshape an item by machining, welding, heating or bending as this may affect the Working Load Limit
- master links and the other items of the sling are all identifiable as being in stainless steel and for lifting purposes
- items should be used for straight in line loading only, this in order to avoid bending
- items are not distorted or unduly worn

It is required that the products are regularly inspected and that the inspection should take place minimally 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. with a consequence of deformation and alteration of the material structure.
Inspection by a competent person should take place at least every six months and even more frequently when the components are used in severe operating conditions.

Working Load Limit table for stainless steel chain slings

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
inch	mm						
7/32	6	0.70	1.00	0.70	1.47	1.05	1.12
5/16	8	1.20	1.70	1.20	2.50	1.80	1.92
3/8	10	1.60	2.25	1.60	3.36	2.40	2.56
1/2	13	2.70	3.80	2.70	5.70	4.05	4.32

Additional instructions for lifting eyes

- lifting eyes should never be side-, tip- or back-loaded
- always make sure that the lifting eye is supporting the load correctly
- lifting point should be seated well down in a hook
- lifting point should be well fixed in the load (same thread, well positioned)

The shank length should be adapted to the material of the load. The shank should be long enough, i.e. 1.5 times the diameter for hard materials and 3 times for softer materials like aluminum and brass. The length must not be smaller than 1.5 times the diameter (e.g. M20, minimum length 30 mm). For softer material, consider a longer length and through-hole mounting with a nut and washer on the other side. The material to which the lifting point will be attached should be strong enough to withstand lifting forces without any deformation. The lifting point must be adapted to the hook size in order to be positioned correctly in the seat of the hook.

Assembly:
The bolt thread and the tapped hole in the load must be compatible and both in a good state.
The depth of the tapping should be at least 20 % more than the shank length.
The surface should be flat and perpendicular to the lifting eye shank providing full contact with the lifting eye.
When a bolt is screwed on the shank, it must be at least a class 5 one.
Never use a sling as a loop between two lifting eyes.
Consider the center of gravity of the load to position the lifting eyes (symmetric to the center)
The tapping must be positioned at a distance of at least 3 times the shank diameter from the edge of the load.

For the ALI and ELI lifting eyes, the angle of use is limited to 30° from the axis. Over 30° the Working Load Limit will decrease drastically.
The assembly must be done by hand without any tool or lever.
The lifting eye should be screwed until the base is flush with the surface of the load.

For the transport ring PASI, the welding should be done by a qualified welder in accordance with EN 287-1.

- the thickness of the weld must be sufficient to support the load to be lifted.
- the surface must be clean, free from rust, painting, grease.
- the weld band must be strong enough to resist to the load.
- the hook shape must follow the support shape.

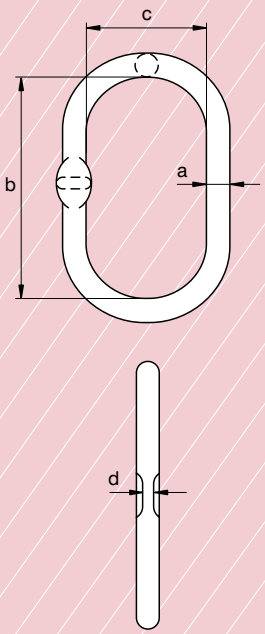
Corrosion resistance table for stainless steel AISI 316L

The table is a general guide only and should not be considered as a substitute for testing under 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 concentrations)	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

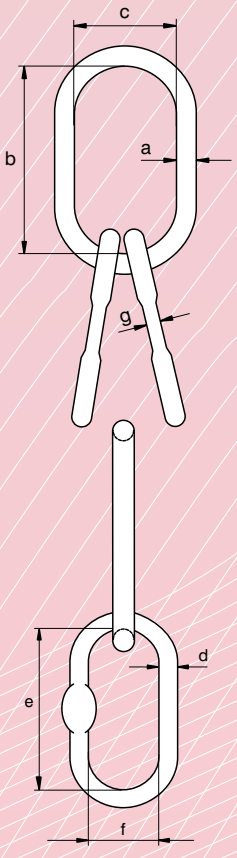


MSI

EXCEL® Stainless steel master link

- **Material** : AISI 316L
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter chain 1 leg		diameter chain 2 legs				diameter	length inside	width inside	thick-ness	weight each
				ß ≤ 45°		ß ≤ 60°		a	b	c	d	
	t	inch	mm	inch	mm	inch	mm	mm	mm	mm	mm	kg
MS13I	0.75	7/32	6	-	-	7/32	6	13	110	60	6	0.34
MS16I	1.25	5/16	8	7/32	6	5/16	8	16	110	60	6	0.53
MS18I	2	3/8	10	5/16	8	3/8	10	18	135	75	8	0.82
MS22I	3.2	1/2	13	3/8	10	1/2	13	22	160	90	10	1.45
MS26I	5	5/8	16	1/2	13	5/8	16	26	180	100	14	2.29



MTSI

EXCEL® Stainless steel master link assembly

- **Material** : AISI 316L
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter chain 3/4 legs		diameter	length inside	width inside	diameter	length inside	width inside	thickness	weight each
				a	b	c	d	e	f	g	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
MTS18I	1.6	7/32	6	18	135	75	13	54	25	6	1.17
MTS22I	2.65	5/16	8	22	160	90	16	70	34	8	2.17
MTS26I	4.25	3/8	10	26	180	100	18	85	40	8	3.34
MTS32I	6.7	1/2	13	32	200	110	22	115	50	13	5.99

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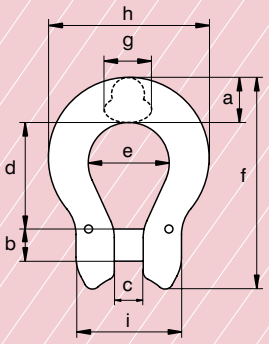
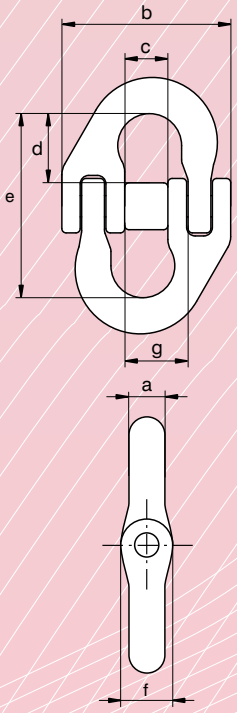


CO1

EXCEL® Stainless steel omega link

- **Material** : AISI 316L
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		width	diameter pin	width	length inside	width bow	length outside	thick-ness	width outside	width outside	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CO5I	0.5	3/16	5	11	6	7	24	19	50	9	39	28	0.07
CO6I	0.7	7/32	6	11	8	7	24	19	50	9	39	28	0.07
CO7/8I	1.2	1/4-5/16	7-8	18	9	9	32	23	70	16	53	32	0.18
CO10I	1.6	3/8	10	18	13	11	40	30	81	17	61	42	0.28
CO13I	2.7	1/2	13	23	16	14	50	39	104	20	80	54	0.64

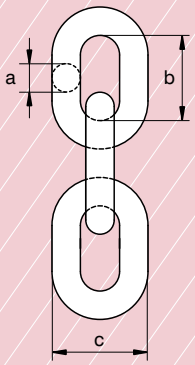


MJI

EXCEL® Stainless steel connecting link

- **Material** : AISI 316L
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
				a	b	c	d	e	f	g	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
MJ6I	0.7	7/32	6	8	43	11	14	45	11	16	0.10
MJ7/8I	1.2	1/4-5/16	7-8	9	52	14	18	55	14	20	0.16
MJ10I	1.6	3/8	10	13	70	16	25	73	18	25	0.36
MJ13I	2.7	1/2	13	18	85	19	32	92	25	28	0.73

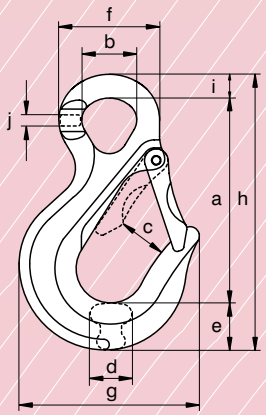


CHAINI

Stainless steel lifting chain

- **Material** : AISI 316L
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate, manufacturer test certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter		length inside	width outside	links per meter	length per drum	weight per mtr
		a		b	c			
	t	inch	mm	mm	mm		m	kg
CHAIN6I	0.7	7/32	6	18	21	55.56	100	0.78
CHAIN8I	1.2	5/16	8	24	29	41.67	100	1.3
CHAIN10I	1.6	3/8	10	30	34	33.33	100	2.14
CHAIN13I	2.7	1/2	13	39	45	25.64	100	3.64



CSOI

EXCEL® Stainless steel eye sling hook

- **Material** : AISI 316L
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	diameter inside eye	width opening	thick-ness	width	diameter eye outside	width outside	length	width	thick-ness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CSO6I	0.7	7/32	6	86	23	27	15	19	43	73	115	10	7	0.28
CSO7/8I	1.2	1/4-5/16	7-8	102	26	27	19	23	51	87	137	13	8	0.56
CSO10I	1.6	3/8	10	121	35	28	23	29	66	106	165	15	11	1.02
CSO13I	2.7	1/2	13	155	41	33	31	36	76	136	208	19	14	1.77

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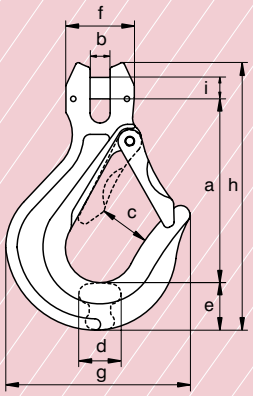
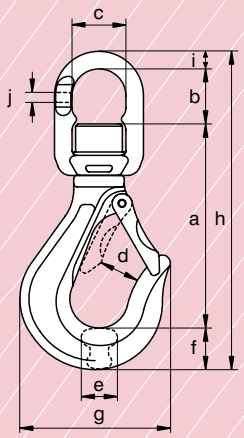


CSCI

EXCEL® Stainless steel clevis sling hook

- **Material** : AISI 316L
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	width	width opening	thick-ness	width	width outside	width outside	length	diameter pin	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CSC5I	0.5	3/16	5	76	7	25	15	19	27	73	108	6	0.29
CSC6I	0.7	7/32	6	76	7	25	15	19	27	73	108	8	0.29
CSC7/8I	1.2	1/4-5/16	7-8	95	9	28	20	22	32	85	133	9	0.55
CSC10I	1.6	3/8	10	113	11	28	24	28	41	106	164	13	0.97
CSC13I	2.7	1/2	13	138	15	38	32	40	52	133	208	16	1.86

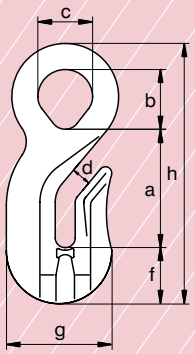


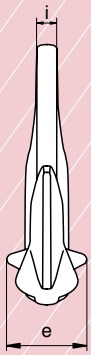
CSEI

EXCEL® Stainless steel swivel sling hook

- **Material** : AISI 316L
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity
- **Note** : equipped with a stainless steel washer

partnumber	working load limit	for chain diameter		length	length inside	width inside	width opening	thickness	width	width outside	length outside	dia-meter	thick-ness	weight each
				a	b	c	d	e	f	g	h	i	j	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CSE6I	0.7	7/32	6	100	33	32	27	15	19	73	164	12	6	0.55
CSE7/8I	1.2	1/4-5/16	7-8	126	39	37	30	20	22	85	200	14	8	1
CSE10I	1.6	3/8	10	159	47	48	33	24	29	106	250	16	11	1.9
CSE13I	2.7	1/2	13	189	59	58	36	32	39	133	307	21	14	3.42



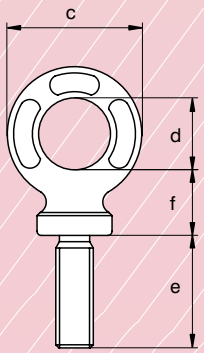


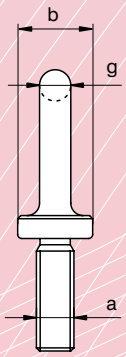
CROI

EXCEL® Stainless steel Eye grab hook

- **Material** : AISI 316L
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificatea and/or EC Declaration of Conformity

partnumber	working load limit	for chain diameter		length	inside length eye	inside width eye	opening	thick-ness	width	width outside	length	thick-ness	weight each
				a	b	c	d	e	f	g	h	i	
	t	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CRO7/8I	1.2	1/4-5/16	7-8	52	20	20	10	33	23	46	108	8	0.32
CRO10I	1.6	3/8	10	53	29	29	12	41	28	58	123	10	0.53
CRO13I	2.7	1/2	13	89	43	39	15	56	40	78	192	18	1.64





ALI

EXCEL® Stainless steel eye bolt

- **Material** : AISI 316L
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
AL06I	0.12	M 6 x 1.00	20	34	20	20	17	7	0.05
AL08I	0.2	M 8 x 1.25	20	34	20	24	17	7	0.05
AL10I	0.4	M10 x 1.50	20	38	22	30	19	8	0.08
AL12I	0.6	M12 x 1.75	25	47	26	36	23	10	0.14
AL14I	0.8	M14 x 2.00	30	57	29	40	28	14	0.26
AL16I	1	M16 x 2.00	36	65	35	55	30	14	0.37
AL18I	1.5	M18 x 2.50	36	65	35	55	30	14	0.38
AL20I	2	M20 x 2.50	40	73	39	59	34	16	0.58
AL22I	2.5	M22 x 2.50	42	82	44	64	38	19	0.74
AL24I	3	M24 x 3.00	55	95	54	84	40	20	1.12

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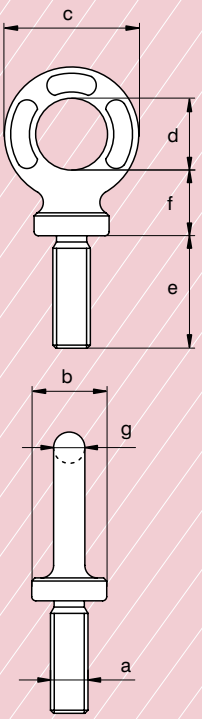
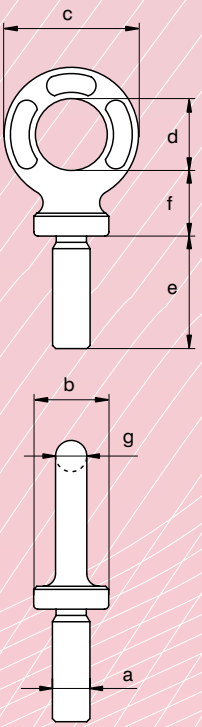


ALDINI

EXCEL® Stainless steel eye bolt length as DIN580

- **Material** : AISI 316L
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
AL08DINI	0.2	M 8 x 1.25	20	34	20	13	17	7	0.05
AL10DINI	0.4	M10 x 1.50	20	38	22	17	19	8	0.07
AL12DINI	0.6	M12 x 1.75	25	47	26	21	23	10	0.12
AL14DINI	0.8	M14 x 2.00	30	57	29	27	28	14	0.24
AL16DINI	1	M16 x 2.00	36	65	35	27	30	14	0.34
AL18DINI	1.5	M18 x 2.50	36	65	35	30	30	14	0.38
AL20DINI	2	M20 x 2.50	40	73	39	30	34	16	0.52
AL22DINI	2.5	M22 x 2.50	42	82	44	35	38	19	0.67
AL24DINI	3	M24 x 3.00	55	95	54	36	40	20	0.98

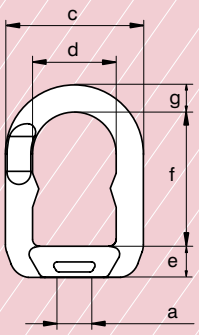


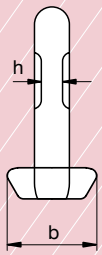
ALBI

EXCEL® Stainless steel eye bolt without thread

- **Material** : AISI 316L
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity
- **Note** : final WLL of product may change after machining

partnumber	working load limit	diameter	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
AL08BI	0.2	12	22	34	20	24	17	7	0.07
AL10BI	0.4	15	24	38	22	30	19	8	0.11
AL12BI	0.6	16	28	47	26	36	23	10	0.17
AL14BI	0.8	19	34	57	29	40	28	14	0.3
AL18BI	1.5	22	41	65	35	55	30	14	0.48
AL20BI	2	26	45	73	39	59	34	16	0.58
AL22BI	2.5	29	47	82	44	64	38	19	0.94
AL24BI	3	30	58	95	54	84	40	20	1.15



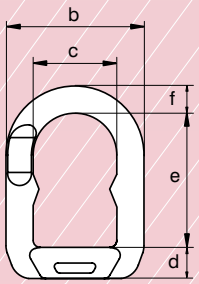


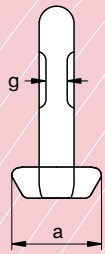
ELI

EXCEL® Stainless steel eye nut

- **Material** : AISI 316L
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity

partnumber	working load limit	diameter thread	diameter base	width	width inside	thickness base	length inside	diameter	thickness	weight each
		a	b	c	d	e	f	g	h	
	t	mm	mm	mm	mm	mm	mm	mm	mm	kg
EL06I	0.12	M 6 x 1.00	31	51	30	14	44	11	6	0.15
EL08I	0.2	M 8 x 1.25	31	51	30	14	44	11	6	0.15
EL10I	0.4	M10 x 1.50	31	51	30	14	44	11	6	0.15
EL12I	0.6	M12 x 1.75	39	56	32	15	48	12	7	0.23
EL14I	0.8	M14 x 2.00	39	56	32	15	48	12	7	0.23
EL16I	1	M16 x 2.00	44	66	37	17	60	14	9	0.37
EL18I	1.5	M18 x 2.50	44	66	37	17	60	14	9	0.37
EL20I	2	M20 x 2.50	44	66	37	17	60	14	9	0.37
EL22I	2.5	M22 x 2.50	52	81	48	21	75	17	11	0.63
EL24I	3	M24 x 3.00	52	81	48	21	75	17	11	0.63
EL27I	3.5	M27 x 3.00	52	81	48	21	75	17	11	0.63





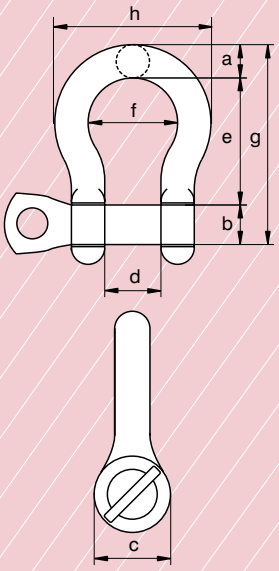
ELBI

EXCEL® Stainless steel eye nut without thread

- **Material** : AISI 316L
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity
- **Note** : final WLL of product may change after machining

partnumber	working load limit	diameter base	width	width inside	thickness base	length inside	diameter	thickness	weight each
		a	b	c	d	e	f	g	
	t	mm	mm	mm	mm	mm	mm	mm	kg
EL0BI	0.4	31	51	30	14	44	11	6	0.15
EL1BI	0.8	39	56	32	17	48	12	7	0.23
EL2BI	2	44	66	37	18	60	14	9	0.37
EL3BI	3.5	52	81	48	24	75	17	11	0.63

EXCEL®

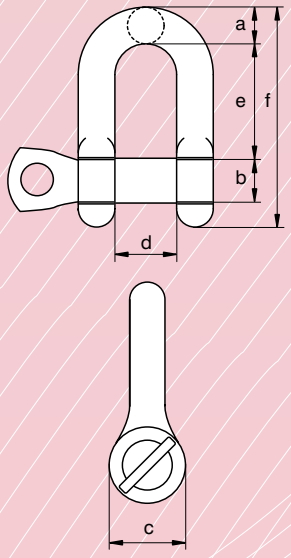


MLVI

Stainless steel bow shackle with screw pin

- **Material** : AISI 316
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity
- **Note** : marked with WLL and CE

partnumber	working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	length	width	weight each
		a	b	c	d	e	f	g	h	
	t	mm	mm	mm	mm	mm	mm	mm	mm	kg
MLV0.4I	0.4	8	8	16	16	32	25	56	41	0.07
MLV0.6I	0.6	10	10	19	20	40	28	67	48	0.12
MLV0.9I	0.9	12	12	24	25	48	36	79	59	0.21
MLV1.5I	1.5	13	16	31	24	52	35	87	60	0.33
MLV2.5I	2.5	16	20	38	28	64	42	108	71	0.62
MLV3I	3	19	22	44	32	72	50	125	87	0.99
MLV4I	4	22	25	50	37	74	60	145	101	1.46
MLV6I	6	25	30	57	40	94	67	157	115	2.17

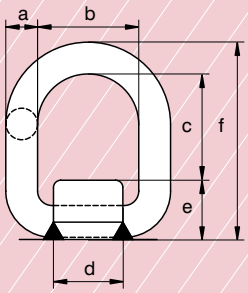


MDVI

Stainless steel dee shackle with screw pin

- **Material** : AISI 316
- **Safety factor** : MBL equals 5 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity
- **Note** : marked with WLL and CE

partnumber	working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	length	weight each
		a	b	c	d	e	f	
	t	mm	mm	mm	mm	mm	mm	kg
MDV0.4I	0.4	8	8	16	16	32	52	0.06
MDV0.6I	0.6	10	10	19	20	40	64	0.12
MDV0.9I	0.9	12	12	24	25	48	78	0.21
MDV1.5I	1.5	13	16	31	24	52	90	0.34
MDV2.5I	2.5	16	20	38	28	64	110	0.61
MDV3I	3	19	22	44	32	72	124	0.9
MDV4I	4	22	25	50	37	74	134	1.08
MDV6I	6	25	30	57	40	94	162	2.25



PASI

Stainless steel weld-on transport ring

- **Material** : AISI 316L
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate and/or EC Declaration of Conformity
- **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

partnumber	working load limit	diameter	width inside	length inside	length base	height base	length	weight each
		a	b	c	d	e	f	
	t	mm	mm	mm	mm	mm	mm	kg
PAS0.75I	0.75	13	40	42	35	28	83	0.4
PAS1.25I	1.25	18	45	48	42	33	99	0.7
PAS3.20I	3.2	22	55	57	49	42	121	1.2
PAS5I	5	26	70	67	64	50	143	2.4

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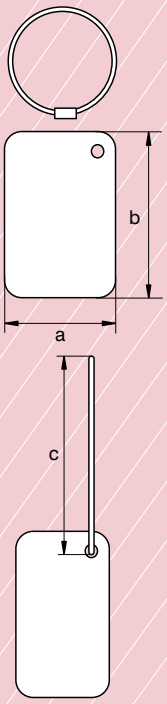
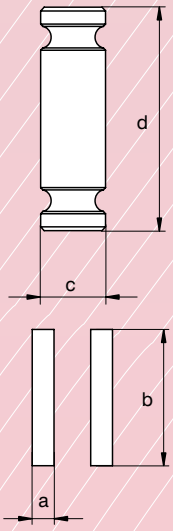


TAGI

EXCEL® Stainless steel identification tag

- **Material** : AISI316
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate

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



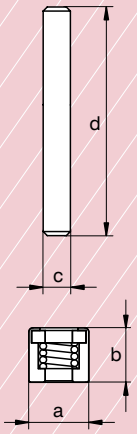
ACI

EXCEL® Stainless steel spare kit for clevis fittings

- **Material** : AISI316
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
AC5I	3	14	6	28	0.01
AC6I	3	14	8	28	0.01
AC7/8I	3	22	9	32	0.02
AC10I	4	24	13	41	0.04
AC13I	4	32	16	53	0.08

partnumber	for fitting	
	COI	**CSCI**
AC5I	CO5I	CSC5I
AC6I	CO6I	CSC6I
AC7/8I	CO7/8I	CSC7/8I
AC10I	CO10I	CSC10I
AC13I	CO13I	CSC13I



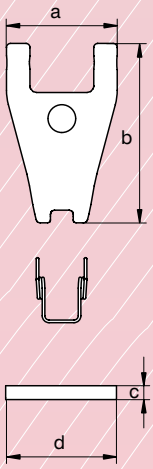
RMJI

EXCEL® Spare kit for connecting link, stainless steel

- **Material** : AISI 316L
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate

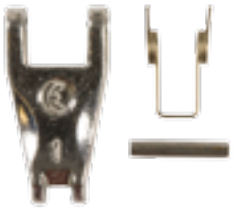
partnumber	diameter	width	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
RMJ6I	12	11	5	41	0.01
RMJ7/8I	13	14	6	54	0.01
RMJ10I	16	15	8	66	0.02
RMJ13I	22	17	10	84	0.05

partnumber	for fitting
	MJI
RMJ6I	MJ6I
RMJ7/8I	MJ7/8I
RMJ10I	MJ10I
RMJ13I	MJ13I



LFI

EXCEL® Stainless steel forged latch



- **Material** : AISI316L
- **Finish** : polished
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	width	length	diameter pin	length pin	weight each
	a	b	c	d	
	mm	mm	mm	mm	kg
LF0I	24	44	4	24	0.04
LF1I	31	59	5	30	0.05
LF2I	41	65	5	40	0.1
LF3I	41	79	6	40	0.2

partnumber	for fitting		
	CSOI	**CSCI**	**CSEI**
LF0I	CSO6I	CSC5I CSC6I	CSE6I
LF1I	CSO7/8I	CSC7/8I	CSE7/8I
LF2I	CSO10I	CSC10I	CSE10I
LF3I	CSO13I	CSC13I	CSE13I

EXCEL®

Lashing

Applications :

Lashing items are suitable for many different lashing purposes, but must never be used for lifting.

Range :

Van Beest offers a wide range of S and SO hooks from 0.2 t to 6 t and a clevis lashing hook with a lashing capacity (LC) of 4 t to 30 t.

Design :

Lashing items are designed to be used for cargo lashing during transportation. Lashing should be done securely and in accordance with the safety rules. These products are not suitable for lifting applications.

Finish :

Items are painted red.

Certification :

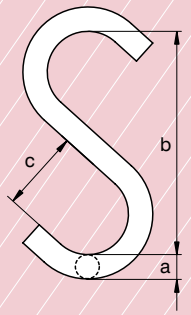
Upon request, all hooks can be supplied with a works certificate.

Instructions for use :

Items should be inspected before use to ensure that :

- items are free from nicks, gouges, cracks and corrosion
- the item is not used for lifting
- never modify, repair or reshape an item by machining, welding, heating or bending as this may affect the Working Load Limit
- items are not distorted or unduly worn
- items should be used for straight in line loading only, this in order to avoid bending

It is required that the products are regularly inspected and that the inspection should take place minimally 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. with a consequence of deformation and alteration of the material structure.
Inspection by a competent person should take place at least every six months and even more frequently when the items are used in severe operating conditions.

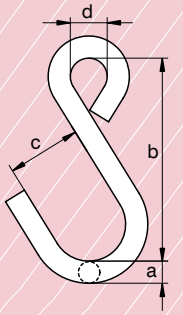


S

S-Hook

- **Material** : high tensile steel
- **Safety factor** : MBL equals 4 x LC
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	lashing capacity	diameter	length	width	weight each
		a	b	c	
	t	mm	mm	mm	kg
S10R	0.2	10	80	30	0.11
S13R	0.3	13	100	40	0.24
S16R	0.5	16	130	50	0.47
S18R	0.75	18	170	60	0.8
S20R	1	20	185	64	1.02
S22R	1.2	22	200	69	1.4
S24R	1.5	24	230	80	1.95
S32R	2	32	270	90	3.5
S36R	3	36	325	98	5.16
S40R	4	40	350	112	7.48
S45R	5	45	400	130	10.81
S51R	6	51	450	150	16.2



SO

S Eye Hook

- **Material** : high tensile steel
- **Safety factor** : MBL equals 4 x LC
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	lashing capacity	diameter	length	width	width inside	weight each
		a	b	c	d	
	t	mm	mm	mm	mm	kg
SO10R	0.2	10	80	30	16	0.11
SO13R	0.3	13	100	40	21	0.25
SO16R	0.5	16	130	50	25	0.48
SO18R	0.75	18	160	59	34	0.76
SO20R	1	20	180	65	42	1.07
SO22R	1.2	22	195	69	37	1.4
SO24R	1.5	24	220	79	40	1.91
SO32R	2	32	260	90	46	3.51
SO36R	3	36	320	99	52	5.35
SO40R	4	40	360	115	59	7.85
SO45R	5	45	390	126	68	10.95
SO51R	6	51	450	150	77	13.8

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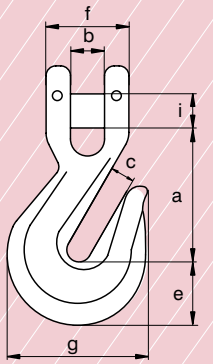

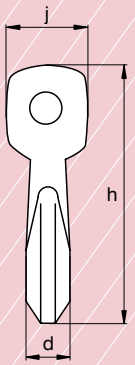

CAC

Clevis lashing hook

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 2 x LC
- **Finish** : painted red
- **Certification** : at no extra charge this product can be supplied with a works certificate

partnumber	lashing capacity	length	width	width	thick-ness	width	width outside	width outside	length outside	diameter pin	width outside	weight each
		a	b	c	d	e	f	g	h	i	j	
	t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
CAC8R	4	66	10	10	16	23	38	56	107	9	19	0.36
CAC10R	6.3	82	13	13	25	31	46	77	137	12	27	0.85
CAC13R	10	113	17	17	30	43	61	106	185	16	36	2.05
CAC16R	16	130	20	20	38	49	69	120	215	20	40	2.95
CAC18/20R	25	152	24	34	40	58	88	142	254	21	44	4.24
CAC22R	30	178	28	27	54	66	101	164	295	24	58	8.6

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Version:AL 5/2012

General conditions of Sale of the private company with limited liability Van Beest BV, established in Sliedrecht

Article 1 General

These General Conditions are applicable to all agreements concluded by Van Beest B.V. (hereinafter referred to as: "Van Beest") with third parties (hereinafter referred to as: the "client").
The trading conditions of the client are not accepted by Van Beest.

Article 2 Offers

2.1 Quotations made by or on behalf of Van Beest are without obligation and are based on data, drawings et cetera provided by the client, if any.

2.2 The prices stated by Van Beest are based on the price determining factors valid at the time of the quotation , including government levies and wages, calculated according to the usual working times adhered to by Van Beest. If one or more of these cost price factor changes before the offer is accepted, - including changes due to fluctuations in the exchange rate of foreign currency - even if this is a result of foreseeable circumstances, Van Beest is entitled to modify the price quoted accordingly. Van Beest will inform the client accordingly in that case.

Article 3 Agreements

3.1 Orders accepted by agents, representatives, commercial travellers and intermediaries will only become valid after they have been confirmed in writing by Van Beest, i.e. by a document signed by both parties, or by letter, fax, e-mail, or any other instrument as agreed by both parties.

3.2 All drawings, calculations, plans, systems, stamps and moulds, methods and other data will remain the property of Van Beest and may not be disclosed to third parties by the client without the prior written permission of Van Beest.

3.3 Price increases caused by production activities being delayed and/or made more difficult through no fault of Van Beest or as a result of an increase in one or more cost price factors, even if such increase has occurred due to foreseeable circumstances, or as a result of government regulations coming into force, will be for the account of the client.
The client will be entitled to make modifications to the goods to be delivered after the conclusion of the agreement as well, but these will only be implemented if Van Beest judges that the production process so allows and provided that the client has stated in writing that he will pay all extra costs associated therewith.

Article 4 Prices and Payment

4.1 The prices quoted by Van Beest in catalogues, price lists, et cetera are without obligation and may be modified without prior notification. Prices do not include turnover tax and are based on "ex works" Incoterms current on the date of the quotation.

4.2 All amounts due are payable within 30 days of the date of the invoice, unless agreed otherwise. Claims for a reduction or settlement will not be accepted. Any costs in connection with effecting payments via banks, conversion of currency, credit costs, etc. are at all times for the account of the client.

4.3 In the event of late payment the client owes interest, as from the due date of the invoice, equal to 3 points above the percentage of the current statutory interest in the Netherlands as referred to in Sections 6:119a and 6:120 Paragraph 2 of the Dutch Civil Code, while Van Beest will be entitled to suspend the fulfilment of its obligations by the amount of time by which the payment has been delayed.
Once Van Beest has passed on its claim for collection by third parties, the client will owe extra judicial costs of 15% over and above the amount due, including interest, without prejudice to the costs which the client is required to pay by law.

Article 5 Delivery

5.1 The delivery time commences as from the latest of the following dates:
a. the day of signing of Van Beest's written order confirmation;
b. the date of receipt of the instalment due under the order;
c. the date of receipt of the technical data, documents and/or securities to be provided to Van Beest by the client.

5.2 Exceeding the delivery date does not entitle the client to compensation nor give it the right to demand cancellation of the agreement or to suspend fulfilment of its own obligations.

5.3 In the case of mass production by Van Beest or its suppliers of products which deviate from the standard products in the production range, Van Beest will be entitled to maintain a margin in respect of the delivered products of 5% above or below the number of products ordered.

Article 6 Risk and Retention of Title

6.1 The risk with regard to damage, theft, loss, etc. of the products passes to the client at the moment when the products are delivered at the client.

6.2 The ownership of the products manufactured by Van Beest and delivered to the client will be transferred to the client once he has paid all that Van Beest is owed in respect of deliveries or services, including the interest and costs, or once he has provided satisfactory security for the fulfilment of his obligations. For as long as this is not the case Van Beest will remain entitled to repossess the products it has delivered. All costs connected therewith will be for the account of the client. The client is not entitled to deliver products to third parties that have not been paid for, except in the normal course of business.

Article 7 Security

7.1 Notwithstanding the agreed conditions of payment, Van Beest will be entitled at all times to demand security from the client for the fulfilment of his obligations before commencing delivery or before continuing a delivery that has already commenced.

Article 8 Guarantee and Complaints

8.1 Van Beest guarantees that the products it sells and delivers meet the specifications applicable to these products, as stated in the Van Beest catalogue. Only specifications expressly agreed in writing apply to products not included in the Van Beest catalogue. The guarantee will in no event be valid for more than three months as from the date of delivery to the client.

8.2 Defects caused by normal wear and tear, inappropriate and/or improper use, or insufficient maintenance, will in no event be covered by the guarantee.

8.3 Van Beest will supply the following test certificates at additional costs:
- dock regulations certificate certificates of classification societies ABS, DNV, Bureau Veritas, R.I.N.A., Germanischer Lloyd, A.I.B.-Vinçotte, and Lloyd's Register of Shipping.

8.4 The client is obliged to inspect the goods delivered - or have them inspected - immediately upon arrival. Complaints regarding the quality or quantity, or other deviations and/or damage must be submitted by the client in detail to Van Beest within 14 days of receipt of the goods, in writing, by post, telex, fax or e-mail. Complaints will no longer be accepted once the client has processed the delivered products or has them delivered to third parties.

8.5 Should Van Beest consider a complaint to be well-founded, it is only obliged to replace the defective product free of charge; Van Beest will in no event be obliged to compensate any consequential loss or damage suffered by the client, howsoever named.

Article 9 Non-attributable Failure

9.1 Where the non-fulfilment of an agreement by Van Beest is caused by circumstances beyond the control of Van Beest - even though such circumstances could have been foreseen at the time when the agreement was concluded - such as war or kindred risks, terrorism, mobilisation, revolt, strike, sit-ins or blockades, boycotts, disruptions in public utilities, government measures, and shortcoming by suppliers, the consequences will not be attributed to Van Beest. In such cases the parties will consult in order to agree a possible adjustment or suspension of the agreement. If no consensus is reached and it is no longer possible to perform the agreement , the agreement may be cancelled by either party.

Article 10 Liability for Damage

10.1 Van Beest will compensate any damage suffered by the Client, provided the client is able to prove that the damage is caused by a defect in a product supplied by Van Beest. Financial loss, such as loss of profit, lost earnings, costs in connection with delays in or interruption of the production or any other consequential loss will in no event be eligible for compensation save in the event of deliberate intent or recklessness on the part of Van Beest.

10.2 Damage to goods belonging to the client and personal injury will be compensated to a maximum of the amount for which Van Beest receives compensation from its insurer.

10.3 The client will indemnify Van Beest against all third-party claims in connection with products supplied to the client by Van Beest, save where such loss is for the account of Van Beest by agreement.

10.4 Van Beest accepts no liability whatsoever for any advice it provides without express agreement, save in the event of deliberate intent or recklessness on the part of Van Beest.

10.5 All claims for compensation will lapse after 5 years, as from the date when the client has become aware of the loss.

Article 11 Cancellation

11.1 Should the client wish to cancel an agreement, giving reasons , he will be obliged to purchase all goods ordered and/or already wholly or partially processed by Van Beest, at the agreed price and to pay Van Beest a compensation equal to 15% of the amount of the order, plus exchange loss, if any, on the part of Van Beest.

Article 12 Taxes

12.1 All taxes and duties imposed on Van Beest in the case of export, including import duties, are for the account of the client.

Article 13 Intellectual Property Rights

13.1 The client will indemnify Van Beest against all third-party claims arising from the alleged violation of any intellectual property rights these third parties are entitled to.

13.2 The client is not allowed to use the trade name and the brand or designation "Green Pin" and/or "EXCEL" for its own business activities or to associate these withother than "Green Pin" and/or "EXCEL" products, without the written permission of Van Beest. Furthermore the client undertakes to inform Van Beest immediately of any infringement by third parties of this trade name or brand.

Article 14 Termination

14.1 In the event that the client is declared bankrupt, his goods are attached, the client applies for a moratorium or fails to fulfil any obligation towards Van Beest, Van Beest will be entitled to terminate any agreement concluded with the client that has not yet been performed or not fully, by a statement in writing.

Article 15 Applicable Law; Disputes

15.1 All agreements with Van Beest are governed exclusively by Dutch Law. The provisions of the Vienna Sales Convention (CISG) are expressly excluded.

15.2 Disputes arising from any agreement concluded with Van Beest will be submitted to the judgement of the District Court of Dordrecht, with the exception of the right of Van Beest to summon the client before the court that has jurisdiction according to Dutch law and subject to the competence of the subdistrict court in accordance with the rules of the Dutch law of civil procedure.