

EXCEL® Grade 8 products

Applications

EXCEL® Grade 8 chain components are designed to be used in the manufacturing of grade 8 chain slings.

Range

Van Beest offers a wide range of grade 8 chain components that enables the assembly of a complete sling from the top master link to the hooks.

The range extends from 6 mm to 32 mm ($\frac{1}{4}$ " to $1 \frac{1}{4}$ ").

Design

EXCEL® Grade 8 chain components are manufactured from drop forged alloy steel.

Most master links, eye- and swivel hooks have a flat part to facilitate easy assembly with the omega link. All EXCEL® swivel hooks are equipped with needle roller thrust bearings.

These components are generally marked with:

- manufacturer's identification symbol ■ EXCEL
- chain diameter in mm and/or inch ■ e.g. 13 and/or $\frac{1}{2}$ "
- traceability code ■ e.g. HA
- steel grade ■ 8
- item code ■ e.g. MJ
- origin ■ FRANCE

Finish

EXCEL® grade 8 components are powder coated yellow or red.

Certification

Specific details of certificate availability can be found on each product page.

Please verify your certification requirements with Van Beest at time of order.

DGUV Type Approval

More than 150 EXCEL® products are DGUV Type Approved (Deutsche Gesetzliche Unfallversicherung). This allows us to H-stamp the components with our unique H number (H94).

Tests are based on GS-OA-15-05:2012-05: Principles for the testing and certification of chains and chain components. These components are Type approved to EN818-2 or EN1677

On the product pages the DGUV icon indicates that this product group is approved, or see our website for the complete list of approved products and their certificates.

Testing

Proofloads for grade 8 products are applied as per following table and certificates can be supplied upon request.

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

Instructions for use

All grade 8 components should be inspected before use to ensure that:

- all markings are legible;
- items with the correct WLL have been selected. For further details, we refer to EN818 standard for chain slings;
- all components of the sling must be of the same steel grade;
- items should be used for in-line lifting only;
- the bolt, nut or any other locking system cannot vibrate out of position;
- items are not distorted or unduly worn;
- all items are free from nicks, gouges, cracks and corrosion;
- items may not be heat treated as this may affect their WLL;
- never modify, repair or reshape an item by machining, welding, heating or bending as this may affect the WLL.

For a detailed explanation on the correct (dis)assembly of clevis fittings, we refer to the instruction PI-03-06 in the FAQ section on our website.



DGUV

INFO

Temperature

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

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

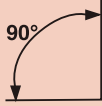
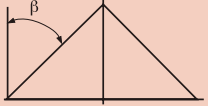
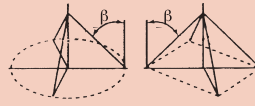
If a sling has been temporarily used under extreme temperature conditions with the appropriate WLL reduction, there is no need to continue to reduce the WLL once it is used again in standard conditions. If a sling has accidentally been exposed to excessive temperatures, for example due to exposure to a fire, the chain sling should be withdrawn from service.

Inspection

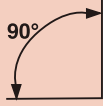
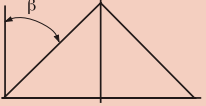
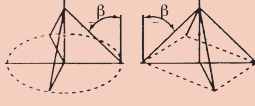
The components must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading, etc. which may lead to deformation and alteration of the material structure.

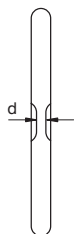
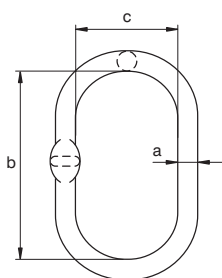
Inspection by a competent person should take place at least every six months and more frequently when the components are used in severe operating conditions.

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°<β ≤ 45°	45°<β ≤ 60°	0°<β ≤ 45°	45°<β ≤ 60°	
							Safety factor 1.4	Safety factor 1.0	Safety factor 2.1	Safety factor 1.5	Safety factor 1.6
mm	inch	t	t	t	t	t					
5	3/16	0.8	1.12	0.8	1.60	1.18	1.25				
6	7/32	1.12	1.60	1.12	2.36	1.70	1.80				
7	1/4	1.50	2.12	1.50	3.15	2.24	2.50				
8	5/16	2.00	2.80	2.00	4.25	3.00	3.15				
10	3/8	3.15	4.25	3.15	6.70	4.75	5.00				
13	1/2	5.30	7.50	5.30	11.20	8.00	8.50				
16	5/8	8.00	11.20	8.00	17.00	11.80	12.50				
20	3/4	12.50	17.00	12.50	26.50	19.00	20.00				
22	7/8	15.00	21.20	15.00	31.50	22.40	23.60				
26	1	21.20	30.00	21.20	45.00	31.50	33.50				
32	1 1/4	31.50	45.00	31.50	67.00	47.50	50.00				

Working Load Limit table for Grade 8 Chain Slings generally to ASME B30.9

Chain Ø										
			1 leg sling	2 leg sling			3 or 4 leg sling			Endless sling
				0° < β ≤ 30°	30° < β ≤ 45°	45° < β ≤ 60°	0° < β ≤ 30°	30° < β ≤ 45°	45° < β ≤ 60°	
				Safety factor 1.73	Safety factor 1.4	Safety factor 1.0	Safety factor 2.6	Safety factor 2.1	Safety factor 1.5	Safety factor 1.6
mm	inch	t	t	t	t	t	t	t	t	
5	³ / ₁₆	0.8	1.38	1.12	0.8	2.10	1.60	1.18	1.25	
6	⁷ / ₃₂	1.12	1.94	1.60	1.12	2.90	2.36	1.70	1.80	
7	¹ / ₄	1.50	2.60	2.12	1.50	3.90	3.15	2.24	2.50	
8	⁵ / ₁₆	2.00	3.46	2.80	2.00	5.20	4.25	3.00	3.15	
10	³ / ₈	3.15	5.45	4.25	3.15	8.20	6.70	4.75	5.00	
13	¹ / ₂	5.30	9.20	7.50	5.30	13.80	11.20	8.00	8.50	
16	⁵ / ₈	8.00	13.80	11.20	8.00	20.80	17.00	11.80	12.50	
20	³ / ₄	12.50	21.60	17.00	12.50	32.50	26.50	19.00	20.00	
22	⁷ / ₈	15.00	26.00	21.20	15.00	39.00	31.50	22.40	23.60	
26	1	21.20	36.70	30.00	21.20	55.00	45.00	31.50	33.50	
32	1 ¹ / ₄	31.50	54.50	45.00	31.50	82.00	67.00	47.50	50.00	

EXCEL®**MS****EXCEL® Master link, grade 8**

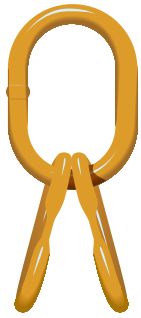
- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : generally to EN 1677-4
- **Finish** : painted yellow (J) or red (R)
- **Certification** : 2.1 2.2 3.1 MTC^b
- **Note** : from 50 t without flat part

diameter chain 1 leg	diameter chain 2 legs		working load limit	dia- meter	length inside	width inside	thick- ness	weight each
	$\beta \leq 45^\circ$	$\beta \leq 60^\circ$						
mm	mm	mm	t	a mm	b mm	c mm	d mm	kg
6-7	6	6-7	1.6	13	100	60	7	0.33
8	7-8	8	3.2	16	120	70	7	0.56
10	10	10	4.5	18	135	75	9	0.8
13	-	13	6.2	20	150	90	9	1.11
16	13	16	8.2	22	150	90	11	1.36
18	-	18	10.6	25	170	95	13	1.96
20	16	19	12.8	28	200	120	13	2.92
20-22	18	20-22	15.5	30	200	120	17	3.4
-	19-20	-	20	36	250	150	17	6.1
26	22	26	25	38	250	150	21	6.8
-	26	-	30	44	280	170	21	10.8
32	-	32	37	45	300	200	23	11.7
-	32	-	50	50	300	200	-	14.75
-	-	-	63	55	350	200	-	20
-	-	-	100	70	400	250	-	39
-	-	-	125	80	400	250	-	52

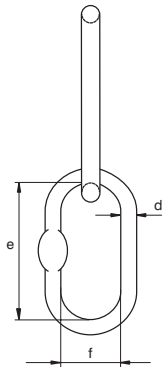
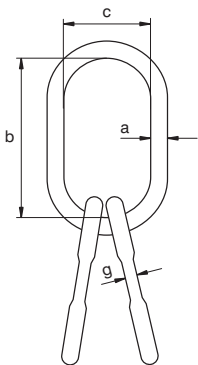
In inch

diameter chain 1 leg	diameter chain 2 legs			working load limit	dia- meter	length inside	width inside	thick- ness	weight each
	$\beta \leq 30^\circ$	$\beta \leq 45$	$\beta \leq 60$		a	b	c	d	
inch	inch	inch	inch	t	inch	inch	inch	inch	lbs
$7/32 - 1/4$	-	$7/32$	$7/32 - 1/4$	1.6	$1/2$	$3^{15/16}$	$2^{3/8}$	$9/32$	0.73
$3/8$	$7/32 - 1/4$	$1/4 - 5/16$	$5/16$	3.2	$5/8$	$4^{23/32}$	$2^{3/4}$	$9/32$	1.23
$3/8$	$5/16$	$3/8$	$3/8$	4.5	$23/32$	$5^{5/16}$	$2^{15/16}$	$11/32$	1.76
$1/2$	$3/8$	-	$1/2$	6.2	$25/32$	$5^{29/32}$	$3^{17/32}$	$11/32$	2.45
$5/8$	-	$1/2$	$5/8$	8.2	$7/8$	$5^{29/32}$	$3^{17/32}$	$7/16$	2.99
$3/4$	$1/2$	-	$3/4$	10.6	$31/32$	$6^{11/16}$	$3^{3/4}$	$1/2$	4.32
$3/4$	-	$5/8$	$3/4$	12.8	$1^{3/32}$	$7^{7/8}$	$4^{23/32}$	$1/2$	6.44
$3/4 - 7/8$	$5/8$	$3/4$	$3/4 - 7/8$	15.5	$1^{3/16}$	$7^{7/8}$	$4^{23/32}$	$21/32$	7.5
-	$3/4$	$3/4$	-	20	$1^{13/32}$	$9^{27/32}$	$5^{29/32}$	$21/32$	13.5
1	$3/4$	$7/8$	1	25	$1^{1/2}$	$9^{27/32}$	$5^{29/32}$	$13/16$	15
-	$7/8$	1	-	30	$1^{23/32}$	$11^{1/32}$	$6^{11/16}$	$13/16$	23.8
$1^{1/4}$	1	-	$1^{1/4}$	37	$1^{25/32}$	$11^{13/16}$	$7^{7/8}$	$29/32$	25.8
-	-	$1^{1/4}$	-	50	$1^{31/32}$	$11^{13/16}$	$7^{7/8}$	-	32.5
-	$1^{1/4}$	-	-	63	$2^{5/32}$	$13^{25/32}$	$7^{7/8}$	-	44.1
-	-	-	-	100	$2^{3/4}$	$15^{3/4}$	$9^{27/32}$	-	86
-	-	-	-	125	$3^{5/32}$	$15^{3/4}$	$9^{27/32}$	-	115

EXCEL® Master link assembly, grade 8



MTS

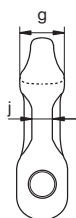
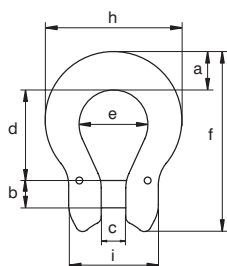
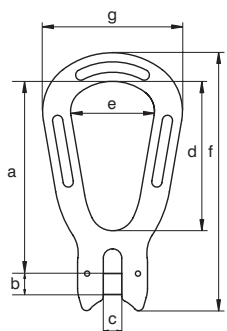


- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : generally to EN 1677-4
- **Finish** : painted yellow (J) or red (R)
- **Certification** : 2.1 2.2 3.1 MTC^b
- **Note** : from 60 t without flat part

diameter chain 3/4 legs		working load limit	dia- meter	length inside	width inside	dia- meter	length inside	width inside	thick- ness	weight each
$\beta \leq 45^\circ$ mm	$\beta \leq 60^\circ$ mm	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	6-7	2.5	16	120	70	13	100	60	7	1.16
6-7	8	3.5	18	135	75	16	100	60	6	1.75
8	10	6.5	22	150	90	18	120	70	9	2.8
10	13	8.5	25	170	95	20	120	70	11	3.82
-	-	10	28	200	120	20	120	70	11	4.7
13	16	13	30	200	120	22	135	75	14	5.85
16	18-19	17	36	250	150	25	135	75	14	9.35
-	20	20	38	250	150	28	170	95	17	11.75
18-20	22	27	45	280	170	33	200	120	17	18.5
-	-	30	45	300	200	36	200	120	21	22
22	26	40	50	300	200	38	150	90	21	24
26	32	50	55	300	200	38	150	90	23	27
-	-	60	58	350	200	42	150	90	-	34
32	-	80	70	400	250	55	300	150	-	72
-	-	100	80	400	250	58	300	150	-	92

In inch

diameter chain 3/4 legs			working load limit	dia- meter	length inside	width inside	dia- meter	length inside	width inside	thick- ness	weight each
$\beta \leq 30$ inch	$\beta \leq 45^\circ$ inch	$\beta \leq 60^\circ$ inch	t	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
-	$7/32$	$7/32 - 1/4$	2.5	$5/8$	$4 \frac{23}{32}$	$2 \frac{3}{4}$	$1/2$	$3 \frac{15}{16}$	$2 \frac{3}{8}$	$9/32$	2.56
$7/32$	$7/32 - 1/4$	$5/16$	3.5	$23/32$	$5 \frac{5}{16}$	$2 \frac{15}{16}$	$5/8$	$3 \frac{15}{16}$	$2 \frac{3}{8}$	$1/4$	3.86
$1/4 - 5/16$	$5/16$	$3/8$	6.5	$7/8$	$5 \frac{29}{32}$	$3 \frac{17}{32}$	$23/32$	$4 \frac{23}{32}$	$2 \frac{3}{4}$	$11/32$	6.17
$3/8$	$3/8$	$1/2$	8.5	$31/32$	$6 \frac{11}{16}$	$3 \frac{3}{4}$	$25/32$	$4 \frac{23}{32}$	$2 \frac{3}{4}$	$7/16$	8.42
-	-	-	10	$1 \frac{3}{32}$	$7 \frac{7}{8}$	$4 \frac{23}{32}$	$25/32$	$4 \frac{23}{32}$	$2 \frac{3}{4}$	$7/16$	10.4
-	$1/2$	$5/8$	13	$1 \frac{3}{16}$	$7 \frac{7}{8}$	$5 \frac{29}{32}$	$7/8$	$5 \frac{5}{16}$	$2 \frac{15}{16}$	$9/16$	12.9
$1/2$	$5/8$	$3/4$	17	$1 \frac{13}{32}$	$9 \frac{27}{32}$	$5 \frac{29}{32}$	$31/32$	$5 \frac{5}{16}$	$2 \frac{15}{16}$	$9/16$	20.6
-	-	$3/4$	20	$1 \frac{1}{2}$	$9 \frac{27}{32}$	$5 \frac{29}{32}$	$1 \frac{3}{32}$	$6 \frac{11}{16}$	$3 \frac{3}{4}$	$21/32$	25.9
$5/8 - 3/4$	$3/4$	$7/8$	27	$1 \frac{25}{32}$	$11 \frac{1}{32}$	$6 \frac{11}{16}$	$1 \frac{5}{16}$	$7 \frac{7}{8}$	$4 \frac{23}{32}$	$21/32$	40.8
$3/4$	-	-	30	$1 \frac{25}{32}$	$11 \frac{13}{16}$	$7 \frac{7}{8}$	$1 \frac{13}{32}$	$7 \frac{7}{8}$	$4 \frac{23}{32}$	$13/16$	48.5
$3/4 - 7/8$	$7/8$	1	40	$1 \frac{31}{32}$	$11 \frac{13}{16}$	$7 \frac{7}{8}$	$1 \frac{1}{2}$	$9 \frac{27}{32}$	$3 \frac{17}{32}$	$13/16$	52.9
-	1	$1 \frac{1}{4}$	50	$2 \frac{5}{32}$	$11 \frac{13}{16}$	$7 \frac{7}{8}$	$1 \frac{1}{2}$	$9 \frac{27}{32}$	$3 \frac{17}{32}$	$29/32$	59.5
1	-	-	60	$2 \frac{9}{32}$	$13 \frac{25}{32}$	$7 \frac{7}{8}$	$1 \frac{21}{32}$	$9 \frac{27}{32}$	$3 \frac{17}{32}$	-	75
-	$1 \frac{1}{4}$	-	80	$2 \frac{3}{4}$	$15 \frac{3}{4}$	$9 \frac{27}{32}$	$2 \frac{5}{32}$	$11 \frac{13}{16}$	$5 \frac{29}{32}$	-	159
$1 \frac{1}{4}$	-	-	100	$3 \frac{5}{32}$	$15 \frac{3}{4}$	$9 \frac{27}{32}$	$2 \frac{9}{32}$	$11 \frac{13}{16}$	$5 \frac{29}{32}$	-	203

EXCEL®**CO****EXCEL®****MP****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** : 2.1 2.2 3.1 MPI^b DGV

for chain diameter		working load limit	width	diameter pin	width	length inside	width bow	length outside	thick-ness	width outside	width outside	thick-ness	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5	³ / ₁₆	0.8	14	6	7	26	20	53	13	41	28	6	0.07
6	⁷ / ₃₂	1.12	14	8	7	25	20	53	13	41	28	6	0.07
7-8	¹ / ₄ - ⁵ / ₁₆	2	20	9	9	34	24	71	16	55	32	8	0.20
10	³ / ₈	3.2	19	13	12	40	31	82	17	63	42	11	0.28
13	¹ / ₂	5.4	25	16	15	51	40	106	20	84	54	14	0.64
16	⁵ / ₈	8.2	32	20	19	64	48	132	25	104	68	17	1.28
18-20	³ / ₄	12.8	38	24	23	80	59	163	30	126	82	22	2.25

EXCEL® Pear shaped link, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-4
- **Finish** : painted yellow (J) or red (R)
- **Certification** : 2.1 2.2 3.1 MPI^b

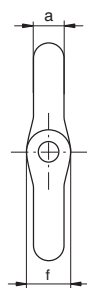
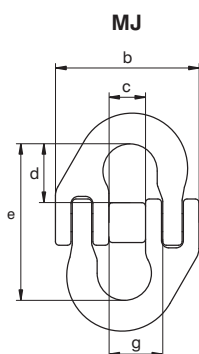
for chain diameter		working load limit	length	diameter pin	width	length inside	width inside	length	width outside	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
5	³ / ₁₆	0.8	85	6	7	64	33	109	55	0.14
6	⁷ / ₃₂	1.12	84	8	7	64	33	109	55	0.14
7-8	¹ / ₄ - ⁵ / ₁₆	2	101	9	9	77	40	132	69	0.34
10	³ / ₈	3.2	125	13	12	97	50	165	84	0.77
13	¹ / ₂	5.4	161	16	15	125	66	213	110	1.62
16	⁵ / ₈	8.2	198	20	19	154	84	262	140	2.72
18-20	³ / ₄	12.8	253	24	23	198	104	331	166	4.28

EXCEL® Connecting link EN1677-1, grade 8

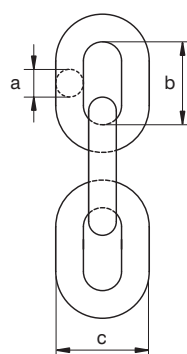
- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-1
- **Finish** : painted yellow (J) or red (R)
- **Certification** : 2.1 2.2 3.1 MPI^b DGUV

for chain diameter		working load limit	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
		t	a	b	c	d	e	f	g	kg
mm	inch		mm	mm	mm	mm	mm	mm	mm	
6	7/32	1.12	8	42	11	20	52	11	15	0.09
7-8	1/4 - 5/16	2	9	53	14	20	55	13	19	0.15
10	3/8	3.2	10	66	18	23	64	18	23	0.28
13	1/2	5.4	14	83	21	32	85	24	28	0.63
16	5/8	8.2	17	103	25	40	105	28	34	1.16
18-20	3/4	12.8	21	120	33	50	129	33	42	1.95
22	7/8	15.5	23	143	40	55	140	37	51	2.94
26	1	21.6	26	160	45	60	153	46	57	4.12
32	1 1/4	32.8	39	197	52	68	174	56	67	8.3

INFO



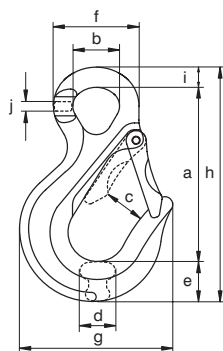
CHAIN



Lifting chain EN818-2, grade 8

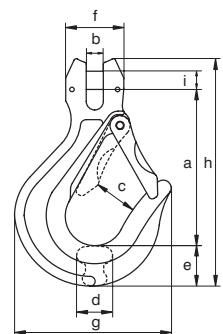
- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 818-2
- **Finish** : painted black
- **Certification** : 2.1 2.2 3.1 MTC^b DGUV

diameter		working load limit	length inside	width outside	links per meter	length per drum	weight per mtr
		t	b	c		m	kg
mm	inch		mm	mm			
6	7/32	1.12	18	22	55.56	600	0.78
7	1/4	1.5	21	26	47.62	500	1.14
8	5/16	2	24	30	41.67	350	1.5
10	3/8	3.15	30	36	33.33	250	2.27
13	1/2	5.3	39	47	25.64	150	3.74
16	5/8	8	48	58	20.83	100	5.54
20	3/4	12.5	60	72	16.67	60	8.94
22	7/8	15	66	79	15.15	50	11.57
26	1	21.2	78	93	12.82	30	15.26
32	1 1/4	31.5	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** : 2.1 2.2 3.1 MPI^b DGUV
- **Note** : from 8.2 t without flat part

for chain diameter		working load limit	length	dia- meter inside eye	width opening	thick- ness	width	dia- meter eye outside	width outside	length outside	width	thick- ness	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5-6	$\frac{3}{16}$ - $\frac{7}{32}$	1.12	84	23	26	15	20	43	72	114	10	6	0.28
7-8	$\frac{1}{4}$ - $\frac{5}{16}$	2	103	26	30	20	24	51	87	139	12	8	0.56
10	$\frac{3}{8}$	3.2	128	35	33	24	29	65	106	172	15	10	1.09
13	$\frac{1}{2}$	5.4	152	41	37	32	39	77	133	209	18	12	1.98
16	$\frac{5}{8}$	8.2	190	52	44	40	44	94	165	255	21	16	3.55
18-20	$\frac{3}{4}$	12.8	237	60	61	49	62	115	208	327	28	21	7.1
22	$\frac{7}{8}$	15.5	280	72	75	54	65	132	242	375	30	23	9.9
26	1	21.6	259	70	73	70	75	144	235	371	37	37	13.3
32	1 $\frac{1}{4}$	32.8	299	66	87	78	89	150	281	430	42	42	21.6

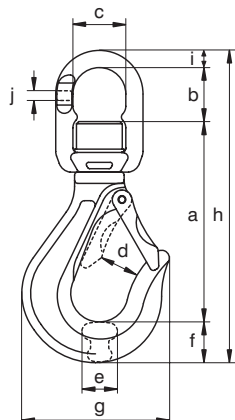
EXCEL®**CSC****EXCEL® Clevis sling hook EN1677-2, grade 8**

- **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** : 2.1 2.2 3.1 MPI^b DGUV

for chain diameter		working load limit	length	width	width opening	thick- ness	width	width outside	width outside	length outside	dia- meter pin	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
5	$\frac{3}{16}$	0.8	76	7	26	15	20	28	72	108	6	0.29
6	$\frac{7}{32}$	1.12	75	7	26	15	20	28	72	108	8	0.29
7-8	$\frac{1}{4}$ - $\frac{5}{16}$	2	95	9	30	20	24	32	87	136	9	0.58
10	$\frac{3}{8}$	3.2	113	12	33	24	29	42	106	164	13	1.1
13	$\frac{1}{2}$	5.4	138	15	37	32	39	54	133	208	16	2.12
16	$\frac{5}{8}$	8.2	161	19	44	40	44	68	165	240	20	3.67
18-20	$\frac{3}{4}$	12.8	198	23	61	49	62	82	208	305	24	7.32
22	$\frac{7}{8}$	15.5	236	25	75	54	65	97	242	350	28	10.63



CSE



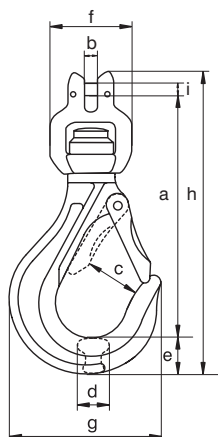
EXCEL® Swivel sling hook EN1677-2, grade 8

- **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** : 2.1 2.2 3.1 MPI^b DGV
- **Note** : equipped with needle roller thrust bearing

for chain diameter		working load limit	length	length inside	width inside	width opening	thick-ness	width	width outside	length outside	dia-meter	thick-ness	weight each
mm	inch	t	a	b	c	d	e	f	g	h	i	j	kg
5-6	$\frac{3}{16} - \frac{7}{32}$	1.12	100	33	32	26	15	20	72	164	12	6	0.55
7-8	$\frac{1}{4} - \frac{5}{16}$	2	126	39	37	30	20	24	87	200	14	8	1
10	$\frac{3}{8}$	3.2	159	47	48	33	24	29	106	250	16	11	1.9
13	$\frac{1}{2}$	5.4	189	59	58	37	32	39	133	307	21	14	3.39
16	$\frac{5}{8}$	8.2	216	68	73	44	40	44	165	352	25	17	6.25
18-20	$\frac{3}{4}$	12.8	263	87	82	61	49	62	208	437	25	22	10.5



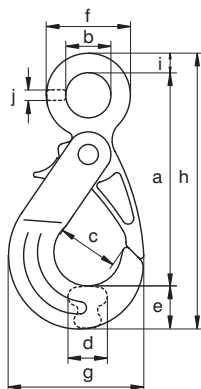
CSECA



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

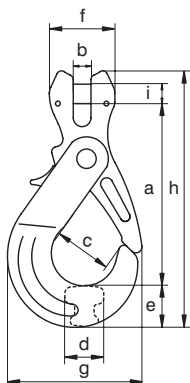
- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Standard** : EN 1677-2
- **Finish** : painted yellow (J) or red (R)
- **Certification** : 2.1 2.2 3.1 MPI^b DGV
- **Note** : equipped with needle roller thrust bearing

for chain diameter		working load limit	length	width	width opening	thick- ness	width	width outside	width outside	length	diameter pin	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
5	³ / ₁₆	0.8	126	7	26	15	20	56	72	159	6	0.56
6	⁷ / ₃₂	1.12	125	7	26	15	20	56	72	159	8	0.56
7/8	¹ / ₄ - ⁵ / ₁₆	2	153	9	30	20	24	65	87	194	9	0.99
10	³ / ₈	3.2	188	12	33	24	29	79	106	240	13	1.95
13	¹ / ₂	5.4	224	15	37	32	39	96	133	294	16	3.54
16	⁵ / ₈	8.2	270	19	44	40	44	121	165	350	20	6.61

EXCEL®**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** : 2.1 2.2 3.1 MPI^b DGUV
- **Note** : from 12.8 t without flat part

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

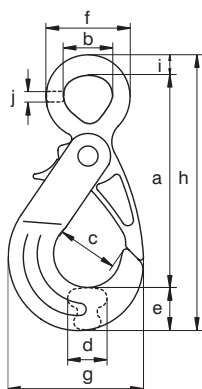
EXCEL®**XLC****EXCEL® Clevis self locking hook EN1677-3, grade 8**

- **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** : 2.1 2.2 3.1 MPI^b DGUV

for chain diameter		working load limit	length	width	width opening	thick-ness	width	width outside	width outside	length	diameter pin	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
5	$\frac{3}{16}$	0.8	92	7	32	16	26	28	77	131	6	0.49
6	$\frac{7}{32}$	1.12	92	7	32	16	26	28	77	131	8	0.49
7-8	$\frac{1}{4} - \frac{5}{16}$	2	116	9	43	23	29	32	92	161	9	0.91
10	$\frac{3}{8}$	3.2	143	12	47	32	35	42	111	200	13	1.77
13	$\frac{1}{2}$	5.4	167	15	61	37	45	54	142	242	16	3.33
16	$\frac{5}{8}$	8.2	201	19	74	43	56	68	185	293	20	6.75
18-20	$\frac{3}{4}$	12.8	232	23	88	51	63	82	207	341	24	9.57



GKO



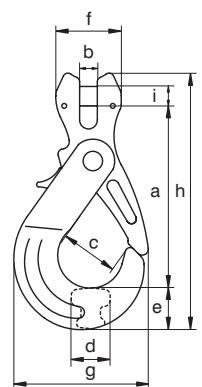
EXCEL® Eye self locking hook, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J) or red (R)
- **Certification** : 2.1 2.2 MPI^b

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



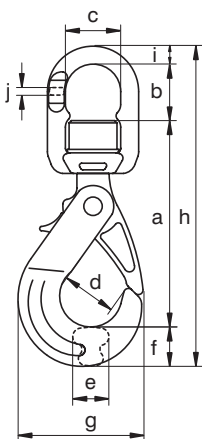
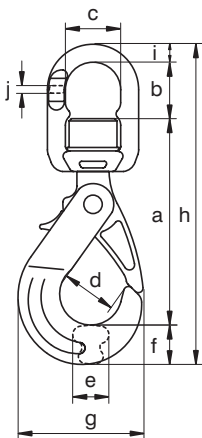
GKC



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** : 2.1 2.2 MPI^b

for chain diameter		working load limit	length	width	width opening	thick-ness	width	width outside	width outside	length	diameter pin	weight each
mm	inch	t	a	b	c	d	e	f	g	h	i	kg
7-8	1/4 - 5/16	2	85	9	32	17	25	32	77	136	9	0.55
10	3/8	3.2	116	12	43	24	29	42	92	168	13	1.02
13	1/2	5.4	153	15	47	32	34	54	111	218	16	2.01
16	5/8	8.2	166	19	62	37	46	66	142	247	20	3.7
18-20	3/4	12.8	215	23	74	43	57	80	185	312	24	7.59
22	7/8	15.5	242	25	88	52	62	98	207	353	28	10.3

EXCEL®**XLE****EXCEL®****GKE****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** : 2.1 2.2 3.1 MPI^b DGUV
- **Note** : equipped with needle roller thrust bearing

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

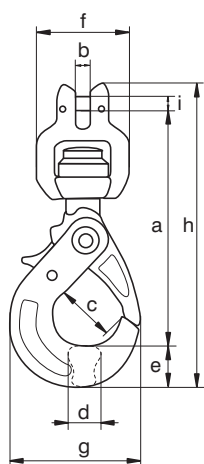
EXCEL® Swivel self locking hook, grade 8

- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J) or red (R)
- **Certification** : 2.1 2.2 MPI^b
- **Note** : equipped with needle roller thrust bearing

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



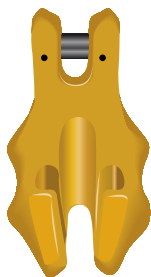
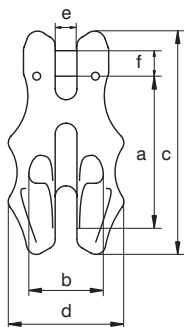
XLBA



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** : 2.1 2.2 3.1 MPI^b DGUV
- **Note** : equipped with needle roller thrust bearing

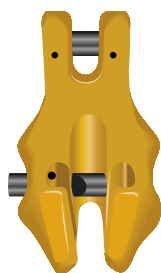
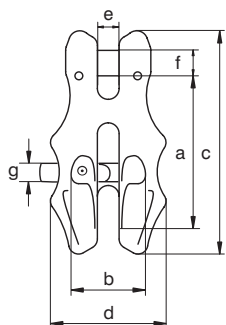
for chain diameter		working load limit	length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
5	³ / ₁₆	0.8	148	7	32	17	27	56	77	188	6	0.7
6	⁷ / ₃₂	1.12	148	7	32	17	27	56	77	188	8	0.8
7-8	¹ / ₄ - ⁵ / ₁₆	2	176	9	43	24	31	65	92	221	9	1.4
10	³ / ₈	3.2	214	12	47	32	37	79	111	271	13	2.6
13	¹ / ₂	5.4	250	15	61	37	47	96	142	325	16	4.7
16	⁵ / ₈	8.2	319	19	74	43	67	121	185	411	20	9.8

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** : 2.1 2.2 3.1 MPI^b

for chain diameter		working load limit	length	width inside	length	width outside	width	diameter pin	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	kg
6	7/32	1.12	54	22	75	42	7	8	0.23
7-8	1/4 - 5/16	2	69	30	94	50	9	9	0.44
10	3/8	3.2	79	37	116	63	12	13	0.87
13	1/2	5.4	105	48	149	79	15	16	1.76
16	5/8	8.2	129	60	185	100	19	20	3.44
18-20	3/4	12.8	140	75	205	111	23	24	4.02

INFO**EXCEL®****GCV**

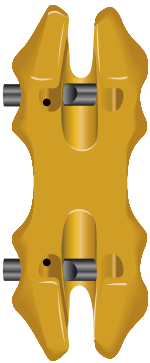
EXCEL® Shortening clutch with locking EN1677-1, grade 8

- **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** : 2.1 2.2 3.1 MPI^b

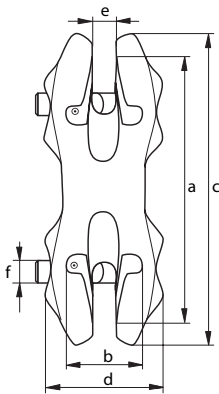
for chain diameter		working load limit	length	width inside	length	width outside	width	diameter pin	diameter pin	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	7/32	1.12	54	22	75	42	7	8	7	0.25
8	5/16	2	69	30	94	50	9	9	8	0.45
10	3/8	3.2	79	37	116	63	12	13	12	0.87
13	1/2	5.4	105	48	149	79	15	16	16	1.76
16	5/8	8.2	129	60	185	100	19	20	20	3.1
20	3/4	12.8	140	75	205	111	23	24	20	3.7

INFO

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



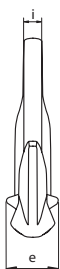
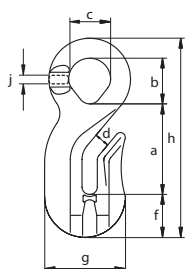
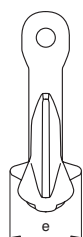
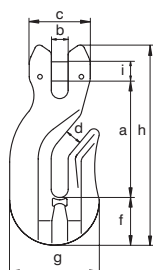
GDV



- **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** : 2.1 2.2 3.1 MPI^b

for chain diameter		working load limit	length	width inside	length	width outside	width	diameter pin	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	kg
6	7/32	1.12	99	23	120	42	7	7	0.49
8	5/16	2	112	30	140	50	9	8	0.77
13	1/2	5.4	178	49	208	79	15	16	2.85

INFO

EXCEL®**CRO****EXCEL®****CRC****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** : 2.1 2.2 3.1 MPI^b DGUV

for chain diameter		working load limit	length	inside length eye	inside width eye	opening	thick-ness	width	width outside	length outside	width	thick-ness	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	$\frac{7}{32}$	1.12	41	24	23	8	24	20	42	94	9	6	0.25
7-8	$\frac{1}{4} - \frac{5}{16}$	2	53	27	26	10	33	23	53	115	10	8	0.45
10	$\frac{3}{8}$	3.2	65	38	36	12	40	29	66	146	14	10	0.91
13	$\frac{1}{2}$	5.4	83	42	41	15	56	40	88	183	16	12	1.99
16	$\frac{5}{8}$	8.2	103	44	41	18	66	43	96	211	20	20	2.49
20	$\frac{3}{4}$	12.8	130	37	37	22	75	48	128	241	26	26	4.3
22	$\frac{7}{8}$	15.5	120	44	44	25	77	57	132	247	26	26	8.5
26	1	21.6	158	46	46	30	100	82	177	320	32	32	14.7
32	$1 \frac{1}{4}$	32.8	210	57	57	38	91	88	215	395	39	39	18

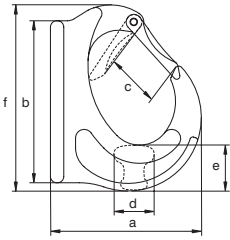
EXCEL® Clevis grab hook EN1677-1, grade 8

- **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** : 2.1 2.2 3.1 MPI^b

for chain diameter		working load limit	length	width	width outside	opening	thick-ness	width	width outside	length outside	diameter pin	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
6	$\frac{7}{32}$	1.12	52	7	28	7	24	19	42	86	8	0.28
7-8	$\frac{1}{4} - \frac{5}{16}$	2	64	9	32	10	33	23	53	104	9	0.45
10	$\frac{3}{8}$	3.2	75	12	42	12	40	29	66	127	13	0.88
13	$\frac{1}{2}$	5.4	103	15	54	15	56	40	88	173	16	2.17
16	$\frac{5}{8}$	8.2	127	19	68	18	65	43	96	208	20	2.81



GH



EXCEL® Excavator hook, grade 8

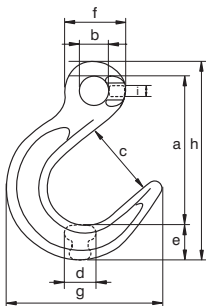
- **Material** : alloy steel, grade 8, quenched and tempered
- **Safety factor** : MBL equals 4 x WLL
- **Finish** : painted yellow (J)
- **Certification** : 2.1 2.2 3.1 MPI b
- **Note** : welding must be done in accordance with DIN 5817 resp. 15429, by a qualified welder according to EN 287-1

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

INFO



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** : 2.1 2.2 3.1 MPI b DGUV
- **Note** : from 8.2 t without flat part

for chain diameter		working load limit	length	diameter eye inside	width opening	thick- ness	width	diameter eye outside	width outside	length	thick- ness	weight each
mm	inch	t	a	b	c	d	e	f	g	h	i	kg
6	⁷ / ₃₂	1.12	93	18	47	17	22	38	97	125	7	0.33
7-8	¹ / ₄ - ⁵ / ₁₆	2	124	24	63	22	30	51	129	166	9	0.78
10	³ / ₈	3.2	157	33	79	28	36	66	160	208	11	1.5
13	¹ / ₂	5.4	190	44	93	36	46	85	198	256	14	3
16	⁵ / ₈	8.2	205	35	95	45	52	88	204	284	24	4.2
18-20	³ / ₄	12.8	235	40	111	53	55	92	228	315	25	7.8
22	⁷ / ₈	15.5	265	46	123	66	71	110	258	268	32	9.9
26	1	21.6	305	54	133	65	81	120	277	420	33	13.8
32	1 ¹ / ₄	32.8	327	60	155	84	96	131	333	459	35	24.5