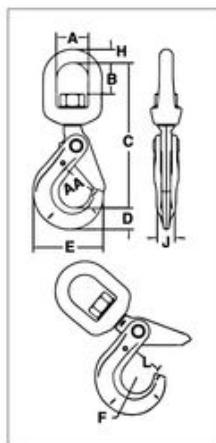


S-1326



- The S-1326 hook is a positioning device and is not intended to rotate under load. For swivel hook designed to rotate under load, use the S-13326.
- S-13326 Swivel Hook utilizes anti-friction bearing design which allows hook to rotate freely under load.
- Rated for both wire rope and for use with Grade 80/100 chain.
- Forged alloy steel, Quenched & Tempered.
- Individually Proof Tested at 2-1/2 times the chain Working Load Limit with certification.
- Recessed trigger design is flush with the hook body, protecting the trigger from potential damage.
- Easy to operate with enlarged thumb access.
- Positive lock latch is self-locking when hook is loaded.
- Trigger repair kit available (S-4316). Consists of spring, roll pin, and trigger.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- The SHUR-LOC® Hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g) (1)(i)(A) and 1926.1501(g)(4)(iv)(B).



Crosby 8/10™

Fatigue Rated

QT

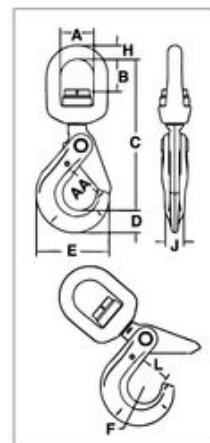
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APPLICATION AND WARNING INFORMATION  
SECTION 17

S-13326



4

**S-1326 SHUR-LOC® Swivel Hooks** Suitable for positioning before lifting.

Chain Size		Frame code	Grade 10 Alloy Chain Working Load Limit (t) 4:1 Design Factor	Working Load Limit (t) 5:1 Design Factor	Stock No.	Weight Each (kg)	Dimensions (mm)											
(in)	(mm)						A	B	C	D	E	F	H	J	L	AA*		
-	6	D	1.45	1.16	1004304	.57	38.1	33.5	156	20.1	66.0	17.0	12.7	16.0	28.7	38.1		
1/4 - 5/16	7-8	G	2.60	2.1	1004313	1.18	44.5	40.4	193	27.9	88.9	22.1	16.0	20.6	35.1	51.0		
3/8	10	H	4.00	3.2	1004322	2.13	50.8	43.9	224	29.7	112	27.9	19.1	23.9	44.5	63.5		
1/2	13	I	6.80	5.4	1004331	3.92	63.5	60.5	284	42.4	139	32.0	25.4	29.5	53.6	76.2		
5/8	16	-	10.3	8.2	1004340	7.71	69.9	64.3	328	51.8	167	38.1	28.7	38.1	63.2	89.0		
3/4	18 - 20	-	16.0	12.8	1004349	10.9	71.9	64.0	358	56.4	197	51.1	27.9	51.6	89.4	127		
7/8	22	-	20.0	16.0	1004358	13.2	87.4	81.0	417	62.2	222	57.4	33.0	55.9	97.3	152		

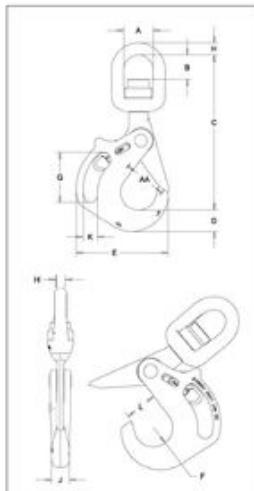
\*Deformation indicators.

**S-13326 SHUR-LOC® Swivel Hooks with Bearing** Suitable for frequent rotation under load.

Chain Size		Frame code	Grade 10 Alloy Chain Working Load Limit (t) 4:1 Design Factor	Working Load Limit (t) 5:1 Design Factor	Stock No.	Weight Each (kg)	Dimensions (mm)											
(in)	(mm)						A	B	C	D	E	F	H	J	L	AA*		
-	6	D	1.45	1.16	1004404	.57	38.1	29.0	157	20.1	66.0	17.0	12.7	16.0	28.7	38.1		
1/4 - 5/16	7-8	G	2.60	2.1	1004413	1.18	44.5	38.6	192	27.9	89.0	22.1	16.0	20.6	35.1	51.0		
3/8	10	H	4.00	3.2	1004422	2.13	51.0	40.9	226	29.7	112	27.9	19.1	23.9	46.5	63.5		
1/2	13	I	6.80	5.4	1004431	3.92	63.5	51.6	282	42.4	138	32.0	25.4	29.5	53.5	76.2		
5/8	16	-	10.3	8.2	1004440	7.71	70.0	50.3	328	52.0	167	38.1	28.7	38.1	63.0	89.0		

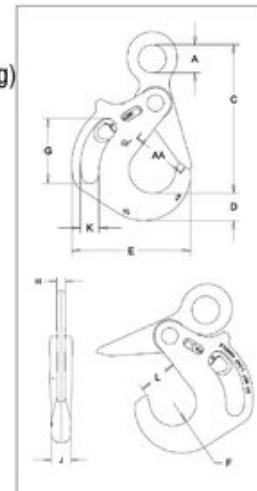
\*Deformation indicators.

**S-13326H**



- The SHUR-LOC® Handle Hook allows the user to get a confident grip on a load with ease and comfort.
- Designed with a handle opening big enough to comfortably fit a gloved hand.
- Positive lock latch is self-locking when hook is loaded.
- Rated for both wire rope and use with Grade 80/100 chain.
- S-13326H Swivel Hook utilizes anti-friction bearing design which allows hook to rotate freely under load.
- Individually Proof Tested at 2-1/2 times the chain Working Load Limit with certification.
- The replaceable pull-trigger allows the user to easily open the SHUR-LOC's positive self-locking latch.
  - Ergonomically designed for easy use and precise control.
  - Secondary side trigger is recessed to avoid inadvertent release.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Forged alloy steel, Quenched & Tempered.
- The SHUR-LOC® hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g) (1)(i)(A) and 1926.1501(g)(4)(iv)(B).

**S-1316AH**



**Crosby 8/10™ Fatigue Tested™ QUIC-CHECK® QT CE**

APPLICATION AND WARNING INFORMATION  
SECTION 17

### S-13326H SHUR-LOC® Handle Swivel Hooks with Bearings

Chain Size		Grade 10 Alloy Chain Working Load Limit (t) 4:1*	Working Load Limit (t) 5:1*	Frame Code	Stock No.	Weight Each (kg)	Dimensions (mm)											
(in)	(mm)						A	B	C	D	E	F	G	H	J	K	L	AA*
5/8	16	10.3	8.2	JA	1005014	11.8	69.9	57.2	272	50	217	42.5	119	28.7	44	33.5	71	102
3/4	18/20	16.0	12.8	KA	1005023	16.8	79.2	51.9	393	66	255	50.5	120	31.8	52	32	84	127
7/8	22	19.4	15.5	LA	1005041	25.9	104	92.7	482	69	292	57	136	41.4	62	40	93	152
1	26	27.1	21.7	NA	1005050	38.1	127	102	547	79	324	64	164	41.4	70	40	104	165

4:1 Design Factor. \*Deformation indicators.

### S-1316AH SHUR-LOC® Handle Eye Hook

Chain Size		Grade 10 Alloy Chain Working Load Limit (t) 4:1*	Working Load Limit (t) 5:1*	Frame Code	Stock No.	Weight Each (kg)	Dimensions (mm)											
(in)	(mm)						A	B	C	D	E	F	G	H	J	K	L	AA*
5/8	16	10.3	8.2	JA	1023579	8.2	51	10.69	272	50	217	42.5	119	20	44	33.5	71	102
3/4	18/20	16.0	12.8	KA	1023599	12.7	70	12.03	306	66	255	50.5	120	22	52	32	84	127
7/8	22	19.4	15.5	LA	1023607	17.7	80	13.46	342	69	292	57	136	91	62	40	93	152
1	26	27.1	21.7	NA	1023625	27.2	90	15.55	395	79	324	64	164	30	70	40	104	165

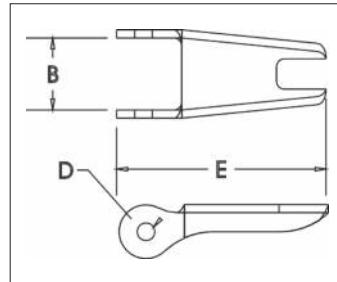
4:1 Design Factor. \*Deformation indicators.

## S-4320 Replacement Latch Kit



- Heavy duty stamped latch interlocks with the hook tip.
- High cycle, long life spring.
- Can be made into a "Positive Locking" Hook when proper cotter pin is utilized.
- Latch kits shipped unassembled and individually packaged with instructions.
- Meets the intent of OSHA Rule 1926.1431(g) and 1926.1501(g)(when secured with the bolt, nut and pin) for lifting personnel.

**IMPORTANT:** The new S-4320 Latch Kit will not fit the old style 319, 320 and 322 hooks.



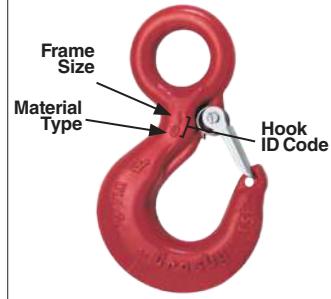
APPLICATION AND WARNING INFORMATION  
SECTION 17

4

## S-4320 Replacement Latch Kit for 319N, 320N, 322N, 339N, 1327 and 1339 Hooks

Hook Size (t)			Hook ID Code	Stock No.	Weight Each (kg)	Dimensions (mm)		
Carbon	Alloy	Bronze				B	D	E
3/4	1	.5	D	1096325	.01	12.7	3.80	36.6
1	1-1/2	.6	F	1096374	.02	13.7	4.30	39.6
1-1/2	2	1	G	1096421	.02	16.0	4.30	42.2
2	3	1.4	H	1096468	.03	16.8	4.30	48.5
3	5	2	I	1096515	.05	21.1	5.10	58.5
5	7	3.5	J	1096562	.07	26.4	5.10	73.2
7-1/2	11	5	K	1096609	.13	31.8	6.85	90.5
10	15	6.5	L	1096657	.15	34.3	6.85	97.0
15	22	10	N	1096704	.38	42.2	9.90	132

### Example of Hook ID Placement Location



### PL Latch Kits



### LATCH ORDERING INSTRUCTIONS

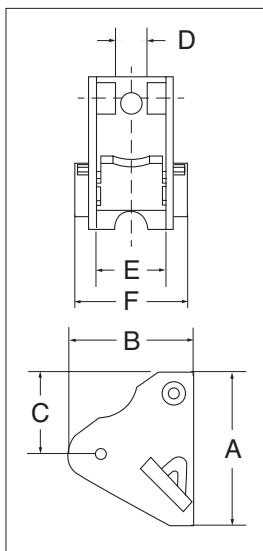
Specify PL, PL-N or PL-O latch kit stock number from charts below.

Specify capacity of hook to which latch will be assembled.

Specify hook material (carbon or alloy).

- Hot-dip galvanized.
- Heavy duty latch with easy operating features.
- Flapper lever indicates locked or unlocked position.
- Assembly instructions included with each latch.
- For additional dimensional data on eye, shank or swivel hooks, see Warnings & Applications.
- Meets the intent of OSHA Rule 1926.1431(g) and 1926.1501(g) (when secured with the bolt, nut and pin) for lifting personnel.

APPLICATION AND WARNING INFORMATION  
SECTION 17



### PL LATCH KITS

Hook Size (t)		Hook ID Code	Stock No.	Weight Each (kg)	Dimensions (mm)					
Carbon	Alloy				A	B	C	D	E	F
3	4-1/2	I	1093711	.24	68.3	60.7	52.6	16.0	28.7	49.5
5	7	J	1093712	.30	76.0	63.2	51.0	16.0	35.1	55.9
7-1/2	11	K	1093713	.45	92.0	62.5	60.5	16.0	41.4	63.2
10	15	L	1093714	.57	102	83.1	68.5	16.0	47.8	82.6
15	22	N	1093715	1.34	135	106	74.0	21.3	60.5	88.6
20	30	O	1093716	1.84	152	115	83.3	26.9	84.1	119
25	37	P	1093717	3.91	178	174	126	57.0	60.5	155
30	45	S	1093718	4.54	171	183	100	57.0	121	162
40	60	T	1093719	6.49	203	202	108	88.0	151	196
50	75	U	1093720	12.2	251	213	149	86.0	165	226
-	100-150	W - X	1093721	15.1	276	276	165	86.0	200	254
-	200	Y	1093723	20.4	302	284	162	86.0	222	286
-	300	Z	1093724	24.9	318	315	201	86.0	254	311

### PL-N/O Latch Kits



### LATCH ORDERING INSTRUCTIONS

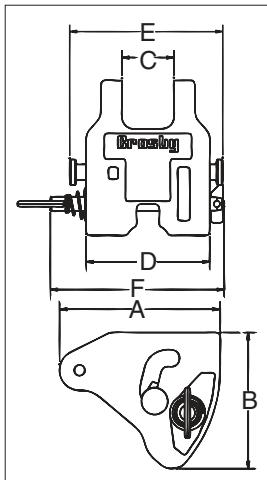
Specify PL, PL-N or PL-O latch kit stock number from charts below.

Specify capacity of hook to which latch will be assembled.

Specify hook material (carbon or alloy).

- Heavy duty latch with easy operating features.
- PL-N designed for Crosby 319N & 320N style hooks, PL-O designed for Crosby 319 & 320 old style hooks.
- Flapper lever indicates locked or unlocked position.
- Assembly instructions included with each latch.
- For additional dimensional data on eye, shank or swivel hooks refer to the specific product page in this section.
- Meets the intent of OSHA Rule 1926.1431(g) and 1926.1501(g) (when secured with the supplied toggle pin) for lifting personnel.

APPLICATION AND WARNING INFORMATION  
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### PL-N/O LATCH KITS

Hook Size (t)		Hook ID Code	PL-N Latch Kit Stock No.	PL-O Latch Kit Stock No.	Weight Each (kg)	Dimensions (mm)					
Carbon	Alloy					A	B	C	D	E	F
3	4.5 / 5 *	I	1092000	1091900	.36	60.9	51.0	21.1	54.1	68.8	87.4
5	7	J	1092001	1091901	.58	74.7	63.5	25.4	64.0	81.0	97.3
7-1/2	11	K	1092002	1091902	.90	92.2	76.7	30.2	69.9	87.4	111
10	15	L	1092003	1091903	1.27	102	86.1	34.0	81.0	102	114
15	22	N	1092004	1091904	2.22	132	110	40.9	98.0	122	130

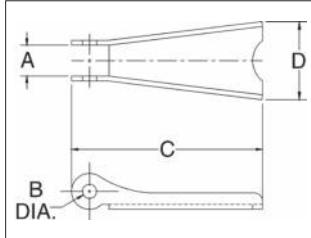
\*“N” style hooks are rated at 5 metric tons.

**SS-4055**  
Latch Kits

**LATCH ORDERING INSTRUCTIONS**

- Specify latch kit stock number.  
 Specify capacity of hook to which latch will be assembled.  
 Specify hook material (carbon or alloy).  
 • Stainless steel construction with cadmium plated steel nuts.  
 • Shipped packaged and unassembled.  
 • Instructions included for easy field assembly.

 APPLICATION AND WARNING INFORMATION  
 SECTION 17

**4**
**SS-4055 LATCH KITS**


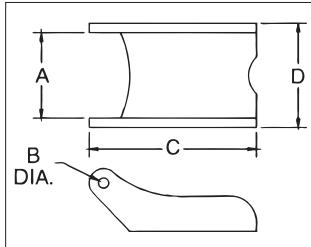
Carbon	Alloy	Bronze	Hook ID Code	Stock No.	Weight Each (kg)	Dimensions (mm)			
						A	B	C	D
3/4	1	.5	D	1090027	.01	9.65	4.05	36.6	15.0
1	1-1/2	.6	F	1090045	.01	9.65	4.05	40.6	15.0
1-1/2 - 2	2 - 3	1.0 - 1.4	G / H	1090063	.01	11.9	4.85	46.7	20.8
3	4-1/2	2.0	I	1090081	.05	14.2	4.30	61.0	25.4
5	7	3.5	J	1090107	.05	14.7	5.10	75.5	30.7
7-1/2 - 10	11 - 15	5.0 - 6.5	K / L	1090125	.08	15.0	6.86	93.0	38.1
15	22	10.0	N	1090143	.18	21.1	9.90	125	48.3
20	30	-	O	1090161	.29	23.9	13.2	149	65.0
25 - 30	37 - 45	-	P / S	1090189	.51	55.5	9.90	165	97.5
40	60	-	T	1090205	.80	84.0	13.2	200	105

**S-4088**  
Alloy Hook Latch Kits

**LATCH ORDERING INSTRUCTIONS**

- Specify latch kit stock number.  
 Specify capacity of hook to which latch will be assembled.  
 Specify hook material (carbon or alloy).

- To be used on A-327 and A-339 Grade 8 sling hooks.
- Latch kits shipped unassembled and individually packaged with instructions.

**S-4088 Alloy Hook Latch Kits**


Hook Chain (mm)	Stock No.	Weight Each (kg)	Dimensions (mm)			
			A	B	C	D
6-7	1090250	.03	19.8	4.05	51.5	23.9
8-10	1090251	.06	26.2	4.85	68.5	31.8
13	1090252	.07	26.2	4.85	76.0	31.8
16	1090253	.07	26.2	4.85	82.5	31.8
19	1090254	.07	38.9	6.60	105	47.8
22	1090255	.07	38.9	6.60	118	51.0

### HOOK CONNECTORS

The 5 connector styles shown below make it possible for Crosby to furnish a Golden Gate Hook to fit almost any make or model of hoisting equipment including, American Engineering Lo-Hed, ARO, Coffing, Electro Lift, Ingersoll-Rand, P & H, Robbins and Myers, Shepard Niles, CM, Shaw-Box, Wright, Yale & Towne.

#### CLOSED SWIVEL BAIL

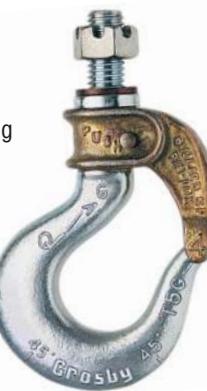


For use where hoisting line or shackle can be inserted into the bail.  
Suitable for positioning before lifting.  
Hook sizes: 1 through 14.

**Style C** — with self-closing gate.  
**Style A** — with manual-closing gate.

#### SHANK-TYPE HOOK

(Standard Length)



For use on existing load blocks, with standard shank length.  
Hook sizes: 2 through 14.

**Style D** — with self-closing gate.  
**Style B** — with manual-closing gate.

#### SHANK-TYPE HOOK

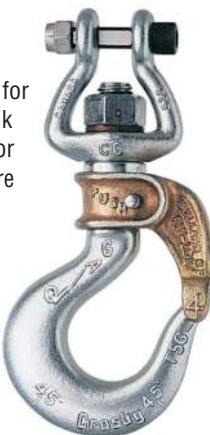
(Long Length)



For use on existing load blocks requiring extra shank length.  
Hook sizes: 4 through 17.

**Style K** — with self-closing gate.  
**Style I** — with manual-closing gate.

#### UNIVERSAL TYPE



Open swivel bail for attachment to link chain. Suitable for positioning before lifting.  
Hook sizes: 3, 4, and 5.

**Style E** — with self-closing gate.  
**Style G** — with manual-closing gate.

#### LINK CHAIN NEST



With ball-bearing swivel; attaches to chain by an alloy pin. Suitable for frequent rotation under load.  
Hook sizes: 4, 5, and 7.

**Style O** — with self-closing gate.  
**Style P** — with manual-closing gate.

Letter designations shown beneath each illustration above indicate BOTH connector style and gate type. Each connector is available with either a self-closing or manual-closing gate. (e.g. A size 4 hook with a closed swivel bail connector and self-closing gate is 4-C; with manual-closing gate, it is 4-A.)

**GATE TYPES**

Brass alloy Golden Gates® are engineered for quality, easy handling and dependability. The heavy duty, corrosion resistant locking mechanism will stay locked until an operator releases it; yet, can easily be shut with one hand. Cost effective, these gates reduce down time, providing the alternative to conventional latches.

**LIF-LOK® GATE - SIZE 1**

**To Lock:** Close the gate; the built-in spring locks the gate against the hook tip.

**To Unlock:** Lift the gate upward on the hook shank and swing open.

**ROLLOX® GATE - SIZE 5 through 9**

**To Lock:** Close the gate; a stainless steel pin is mounted in a horizontal bore which passes through the gate and engages a notch milled in the hook shank.

**To Unlock:** Move the lever downward a quarter-turn or until it stops, the gate can now swing open 160 ° (approx.)

**PIN-LOK® GATE - SIZE 2 through 4**

**To Lock:** Close the gate; a stainless steel pin is carried in a horizontal bore and engages a milled slot in the hook shank.

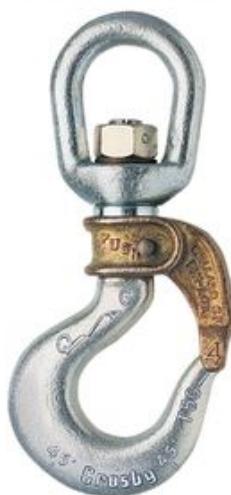
**To Unlock:** Simply depress the stainless steel pin which causes the pin to disengage from the milled slot.

**TIP-LOK® GATE - SIZE 10 through 17**

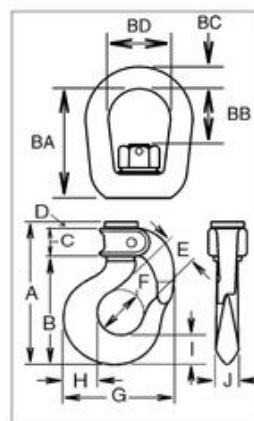
**To Lock:** Press the arm down until the lock trips; two arms of the gate now enclose the tip of the hook.

**To Unlock:** Manually depressing the locking trigger automatically raises the movable arm, allowing the gate to be rotated open.

### Closed Swivel Bail



- For use where hoisting line or shackle can be inserted into the bail.
- BL-C with self-closing gate
- BL-A with manual-closing gate
- Suitable for positioning before lifting.
- Crosby Bullard® Hooks incorporate QUIC-CHECK® deformation and angle indicators. (For detailed information, see the Crosby Value Added page at the beginning of this section.)



**Load Rated**

QUIC-CHECK®

QT

CE

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### Closed Swivel Bail

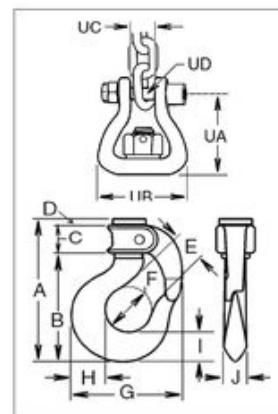
Hook Size	BL-C Stock No.	BL-A Stock No.	Gate Type	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)													
						A	B	C	D	E	F	G	H	I	J	BA	BB	BC	BD
1	1050210	1050001	LIF-LOK	.45	.36	82.0	58.7	16.0	6.60	17.5	22.4	57.0	17.5	16.0	11.2	44.5	16.0	7.85	25.4
2	1050221	1050012	PIN-LOK	.90	.59	105	76.2	23.6	4.06	24.6	31.8	73.0	20.6	19.1	11.2	47.2	24.1	9.65	31.8
3	1050232	1050023	PIN-LOK	1.3	.86	114	84.0	23.9	5.58	26.9	35.1	84.0	23.9	21.3	16.0	62.0	33.3	12.7	38.1
4	1050243	1050034	PIN-LOK	1.5	1.00	124	92.2	25.4	5.58	28.7	38.1	92.0	29.5	25.4	19.1	67.5	34.3	12.7	38.1
5	1050254	1050045	ROLLOX	2.1	1.72	143	105	31.2	6.35	31.8	41.7	104	33.3	28.4	21.3	74.0	40.6	16.0	44.5
6	1050265	1050056	ROLLOX	3.6	2.09	158	119	31.8	6.35	35.3	41.7	116	39.9	34.0	24.6	78.5	35.8	16.0	44.5
7	1050276	1050067	ROLLOX	3.8	3.13	168	132	28.4	6.35	38.1	51.0	125	41.4	36.6	28.7	88.5	42.4	19.1	51.0
8	1050287	1050078	ROLLOX	5.0	4.35	182	147	26.9	7.11	44.5	57.0	148	51.0	41.9	31.2	103	51.0	22.4	57.0
9	1050298	1050089	ROLLOX	6.5	6.12	199	164	26.9	7.87	47.8	63.5	165	52.5	46.0	35.1	118	56.0	26.2	63.5
11	1050309	1050100	TIP-LOK	8.3	9.30	244	203	31.8	7.87	57.0	76.0	192	67.0	57.0	41.1	124	66.5	28.7	70.0
12	1050320	1050111	TIP-LOK	11.1	12.3	267	225	31.8	9.65	63.5	82.5	221	74.5	65.5	49.3	130	57.0	31.8	79.5
14	1050342	1050133	TIP-LOK	16.7	25.0	320	273	35.8	9.65	86.0	108	279	89.0	75.5	60.5	203	108	41.4	104

4:1 Design Factor.

### Open Swivel Bail



- Open Swivel Bail for attachment to link chain.
- BL-E with self-closing gate
- BL-G with manual-closing gate
- Suitable for positioning before lifting.
- Crosby Bullard® Hooks incorporate QUIC-CHECK® deformation and angle indicators. (For detailed information, see the Crosby Value Added page at the beginning of this section.)



### Open Swivel Bail

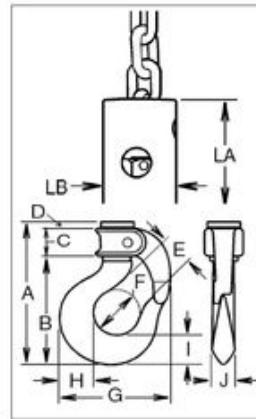
Hook Size	BL-E Stock No.	BL-G Stock No.	Gate Type	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)													
						A	B	C	D	E	F	G	H	I	J	UA	UB	UC	UD
3	1051607	1051706	PIN-LOK	1.3	.81	114	84.5	23.9	5.58	26.9	35.1	81.0	23.9	21.3	16.0	53.0	59.0	13.2	9.65
4	1051618	1051717	PIN-LOK	1.5	.95	124	92.2	25.4	5.58	28.7	38.1	92.0	29.5	25.4	19.1	54.5	59.0	13.2	9.65
5	1051629	1051728	ROLLOX	2.1	1.45	143	105	31.2	6.35	31.8	41.7	104	33.3	28.4	21.3	65.0	67.0	15.7	11.2

4:1 Design Factor.

## Link Chain Nest



- With ball bearing swivel; attaches to chain by an alloy pin.
- BL-O with self-closing gate
- BL-P with manual-closing gate
- Suitable for frequent rotation under load.
- Crosby Bullard® Hooks incorporate QUIC-CHECK® deformation and angle indicators. (For detailed information, see the Crosby Value Added page at the beginning of this section.)



Load Rated

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QT

CE

APPLICATION AND WARNING INFORMATION SECTION 17

## Link Chain Nest

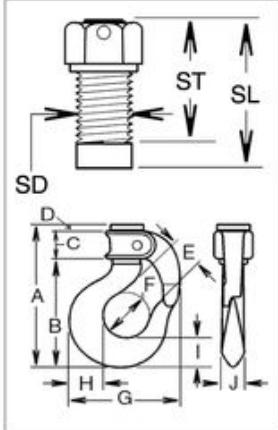
Chain Size	BL-O Stock No.	BL-P Stock No.	Gate Type	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)											
						A	B	C	D	E	F	G	H	I	J	LA	LB
4:1/4-9/32	1051409	1051508	PIN-LOK	1.5	1.13	124	92.2	25.4	5.58	28.7	38.1	92.0	29.5	25.4	19.1	67.0	44.5
5:5/16-3/8	1051442	1051541	ROLLOX	2.1	2.04	143	105	31.2	6.35	31.8	41.7	104	33.3	28.4	21.3	76.0	57.0
7:3/8-7/16	1051464	1051563	ROLLOX	3.8	5.0	168	132	28.4	6.35	38.1	51.0	125	41.4	36.6	28.7	111	76.0
7:1/2-9/16	1051486	1051585	ROLLOX	3.8	5.0	168	132	28.4	6.35	38.1	51.0	125	41.4	36.6	28.7	111	76.0

4:1 Design Factor.

## Standard Length



- For use on existing load blocks, with standard shank length.
- BL-D with self-closing gate
- BL-B with manual-closing gate
- Numbers 2 through 12 style hooks are threaded approximately 80% of shank length.
- Crosby Bullard® Hooks incorporate QUIC-CHECK® deformation and angle indicators. (For detailed information, see the Crosby Value Added page at the beginning of this section.)



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APPLICATION AND WARNING INFORMATION SECTION 17

## Standard Length Shank Hooks

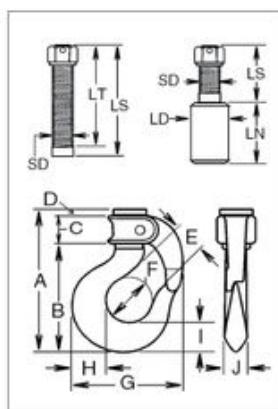
Hook Size	BL-D Stock No.	BL-B Stock No.	Gate Type	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)												
						A	B	C	D	E	F	G	H	I	J	SD	SL	ST
2	1050606	1050408	PIN-LOK	.91	.50	105	76.2	23.6	4.06	24.6	31.8	73.0	20.6	19.1	14.2	12.7	23.1	15
3	1050617	1050419	PIN-LOK	1.3	.59	114	84.1	23.9	5.58	26.9	35.1	81.0	23.9	21.3	16.0	14.2	31.8	19.1
4	1050628	1050430	PIN-LOK	1.5	.77	124	92.2	25.4	5.58	28.7	38.1	92.0	29.5	25.4	19.1	16	33.3	30.2
5	1050639	1050441	ROLLOX	2.1	1.13	143	105	31.2	6.35	31.8	41.7	104	33.3	28.4	21.3	19.1	33.3	25.4
6	1050650	1050452	ROLLOX	3.6	1.59	158	119	31.8	6.35	35.3	41.7	116	39.9	34.0	24.6	22.4	43	29.5
7	1050661	1050463	ROLLOX	3.8	2.36	168	132	28.4	6.35	38.1	51.0	125	41.4	36.6	28.7	25.4	46	35.1
8	1050672	1050474	ROLLOX	5.0	3.22	182	147	26.9	7.11	44.5	57.0	148	51.0	41.9	31.2	28.7	52.5	38.1
9	1050683	1050485	ROLLOX	6.5	4.31	199	164	26.9	7.87	47.8	63.5	165	52.5	46.0	35.1	31.8	62	46
11	1050694	1050496	TIP-LOK	8.3	7.08	244	203	31.8	7.87	57.0	76.0	192	67.0	57.0	41.1	38.1	68.5	47.8
12	1050705	1050507	TIP-LOK	11.2	9.53	267	225	31.8	9.65	63.5	82.5	221	74.5	65.5	49.3	41.4	73	54
13	1050716	1050518	TIP-LOK	13.6	13.6	285	242	31.8	9.65	76.0	95.0	245	83.5	70.0	49.3	44.5	89	56
14	1050727	1050529	TIP-LOK	16.8	18.1	320	273	35.8	9.65	86.0	108	279	89.0	75.5	60.5	51	92.5	60.5

4:1 Design Factor.

### Long Length



- For use on existing load blocks requiring extra shank length.
  - BL-K with self-closing gate
  - BL-I with manual closing gate
- Numbers 4 through 9 style hooks are threaded approximately 80% of shank length.
- Crosby Bullard® Hooks incorporate QUIC-CHECK® deformation and angle indicators.



QUIC-CHECK®



APPLICATION AND WARNING INFORMATION  
SECTION 17

### Long Length Shank Hooks

Hook Size	BL-K Stock No.	BL-I Stock No.	Gate Type	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)													
						A	B	C	D	E	F	G	H	I	J	SD	LN	LS	LT
4 :1/2	1051002	1050804	PIN-LOK	1.45	.86	124	92.2	25.4	5.58	28.7	38.1	92.0	29.5	25.4	19.1	12.7	11.2	81.0	81.0
4 :9/16	1051013	1050815	PIN-LOK	1.5	.86	124	92.2	25.4	5.58	28.7	38.1	92.0	29.5	25.4	19.1	14.2	12.2	81.0	81.0
4 :5/8	1051024	1050826	PIN-LOK	1.5	.86	124	92.2	25.4	5.58	28.7	38.1	92.0	29.5	25.4	19.1	16.0	14.0	84.0	81.0
5	1051035	1050837	ROLLOX	2.1	1.36	143	105	31.2	6.35	31.8	41.7	104	33.3	28.4	21.3	19.1	16.0	90.5	82.5
6	1051046	1050848	ROLLOX	3.6	1.72	158	119	31.8	6.35	35.3	41.7	116	39.9	34.0	24.6	22.4	19.1	103	90.0
7	1051057	1050859	ROLLOX	3.8	2.68	168	132	28.4	6.35	38.1	51.0	125	41.4	36.6	28.7	25.4	22.4	116	105
8	1051068	1050870	ROLLOX	5.0	3.54	182	147	26.9	7.11	44.5	57.0	148	51.0	41.9	31.2	28.4	23.9	129	114
9	1051079	1050881	ROLLOX	6.5	4.90	199	164	26.9	7.87	47.8	63.5	165	52.5	46.0	35.1	31.8	26.9	141	125
12 ‡	1051101	1050903	TIP-LOK	11.2	12.7	267	225	31.8	9.65	63.5	82.5	221	74.5	65.5	49.3	41.4	39.6	137	118
13 ‡	1051112	1050914	TIP-LOK	13.6	15.9	285	242	31.8	9.65	76.0	95.5	245	83.5	70.0	49.3	44.5	38.1	187	146
14 ‡	1051123	1050925	TIP-LOK	16.8	20.4	320	273	35.8	9.65	86.0	108	279	89.0	75.5	60.5	51.0	50.8	137	102
16	1051134	1050936	TIP-LOK	30.0	46.7	388	332	38.1	16.0	102	127	346	118	92.0	76.0	70.0	70.0	406	178
17	1051156	1050958	TIP-LOK	60.0	168	615	522	66.8	23.9	146	178	470	165	152	113	102	100	578	356

4:1 Design Factor. ‡Hook will have the shank extended by use of a Coupling Nut. Customer is required to complete and approve side 2 of a Crosby Bullard® hook data form.

### Crosby® / Bullard Golden Gate Hooks Service Parts

Hook Size	Gate Type	BL-GA Gate Assemblies		BL-RK Gate Repair Kit Stock No.
		Manual Close Stock No.	Self Close Stock No.	
2	PIN-LOK	1100298	1100309	1100101
3	PIN-LOK	1100320	1100331	1100102
4	PIN-LOK	1100342	1100353	1100103
5	ROLLOX	1100364	1100375	1100112
6	ROLLOX	1100386	1100397	1100113
7	ROLLOX	1100408	1100419	1100123
8	ROLLOX	1100430	1100441	1100124
9	ROLLOX	1100452	1100463	1100125
10	TIP-LOK	1100474	1100485	1100133
11	TIP-LOK	1100496	1100507	1100144
12	TIP-LOK	1100518	1100529	1100155
13	TIP-LOK	1100540	1100551	1100166
14	TIP-LOK	1100562	1100573	1100177
15	TIP-LOK	1100584	1100595	1100188
16	TIP-LOK	1100606	1100617	1100199
17	TIP-LOK	1100639	1100628	1100210

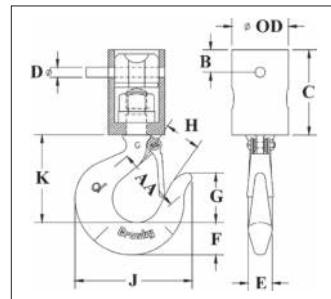
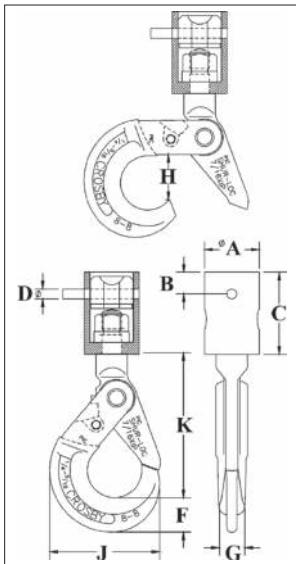
### Bullard® QUIC-CHECK® Deformation Indicator Table

Hook Size	Hook ID Code	AA (mm)
1	1	38.1
2	D	38.1
3	F	38.1
4	G	50.8
5	H	50.8
6	6	63.5
7	I	63.5
8	8	76.2
9	J	101.6
11	K	101.6
12	L	101.6
13	13	127.0
14	N	127.0
16	O	165.1
17	T	254.0

**O-318**


- With ball bearing swivel; attaches to chain by an alloy pin.
- Suitable for frequent rotation under load.
- O-318 Hooks utilize Crosby SHUR-LOC® positive locking hooks. Latch is self-locking when hook is loaded.
- O-319 Hooks utilize Crosby® standard 319 Shank Hooks which incorporate QUIC-CHECK® deformation and angle indicators. (For detailed information, see the Crosby Value Added page at the beginning of this section.)
- Entire assembly is zinc plated.
- Repair kit available consisting of bearing and spring pin.

**O-319**

**4**

**QUIC-CHECK®**

**APPLICATION AND WARNING INFORMATION SECTION 17**

### O-318 Chain Nest Hooks

Chain Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)									
				A	B	C	D	F	G	H	J	K	
6 - 7	1098409	1.5	1.59	44.5	17.8	66.5	7.87	27.9	20.6	37.1	89.0	117	
8 - 10	1098427	2.1	2.72	54.0	17.8	81.0	9.65	29.2	23.9	46.5	110	144	
10 - 11	1098445	3.8	6.24	76.0	25.4	111	12.7	42.2	29.5	53.5	138	179	
13 - 14	1098463	3.8	6.24	76.0	25.4	111	16.0	42.2	29.5	53.5	138	179	

4:1 Design Factor.

### O-319 Chain Nest Hooks

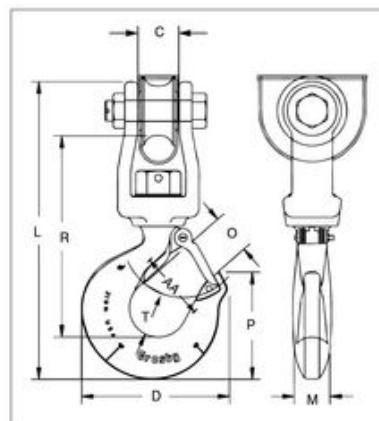
Chain Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)									
				OD	AA	B	C	D	E	F	G	H	J
6 - 7	1098312	1.5	1.16	44.5	51.0	17.8	66.5	7.87	19.1	25.4	38.9	25.4	92.0
8 - 10	1098334	2.1	1.81	54.0	51.0	17.8	81.0	9.65	21.3	28.4	43.7	28.4	104
10 - 11	1098356	3.8	4.54	76.0	63.5	25.4	111	12.7	28.4	36.6	54.0	34.0	123
13 - 14	1098378	3.8	4.54	76.0	63.5	25.4	111	16.0	28.4	36.6	54.0	34.0	123

4:1 Design Factor. \*Deformation indicators.

S-3319



- Designed for utility applications using synthetic rope.
- Suitable for positioning before lifting.
- Hook is forged alloy steel, Quenched & Tempered.
- Design of hook provides needed overhaul weight.
- Utilizes spool & shield designed to protect rope and keep rope positioned correctly on spool.
- Spool provides wider rope bearing surface resulting in an increased area for load distribution and reduces rope abrasion.



APPLICATION AND WARNING INFORMATION  
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### S-3319 Utility Swivel Hook

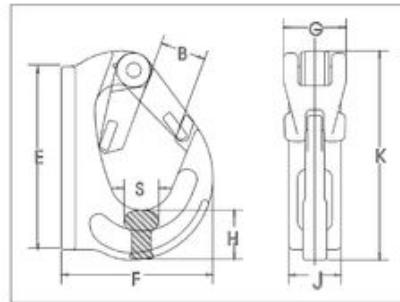
Working Load Limit (t)	Stock No.	Weight Each (kg)	Hook ID Code	Synthetic Rope Size (mm)	Dimensions (mm)									Replacement Latch Kit Stock No.
					C	D	L	M	O	P	R	T	AA*	
1.63	1002054	1.90	HA	14 - 16	27.7	101	222	23.9	29.5	70.6	151	29.5	2.00	1096468
2.50	1002063	3.62	IA	19 - 21	33.2	123	268	30.2	35.8	88.1	179	38.9	2.50	1096515
4.50	1002072	6.80	JA	22 - 27	45.2	160	324	36.6	45.2	117	221	49.3	3.00	1096562

5:1 Design Factor. Maximum allowable proof load is 2 times the Working Load Limit. \*Deformation indicators.

BH-313



- Wide range of sizes available: 1-10 metric ton capacity.
- Forged alloy steel.
- Designed for attachment to mobile lifting equipment to provide a pick point for easy sling attachment.
- Large weld pad.
- Heavy duty latch interlocks with the hook tip. Replacement latches are available.
- Detailed installation and application instructions included with each hook.



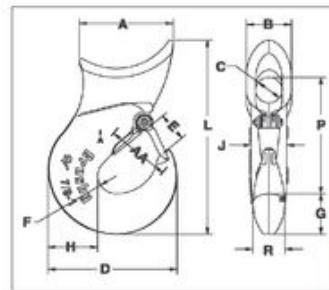
### BH-313 Weld-On Hooks

Working Load Limit (t)	Stock No.	Weight Each (kg)	Dimensions (mm)								Replacement Latch Stock No.
			B	E	F	G	H	J	K	S	
1	1029105	.52	23.1	97.0	71.0	36.1	26.9	25.9	107	18.0	1092104
2	1029114	.84	23.1	82.0	91.0	36.1	24.9	34.0	115	21.1	1092104
3	1029123	1.18	29.0	117	105	36.1	31.0	36.1	131	23.9	1092104
4	1029132	1.90	34.0	131	114	46.0	36.1	42.9	147	29.0	1092105
5	1029141	2.55	34.0	161	133	47.0	45.0	43.9	173	29.0	1092105
8	1029150	3.30	35.1	166	135	47.0	52.0	52.0	178	39.1	1092105
10	1029169	5.00	49.0	205	168	47.0	57.0	54.0	222	39.1	1092106

5:1 Design Factor.

**A-350L**

- New style incorporates throat opening equal to or larger than old style hooks.
- Each product has a Product Identification Code (PIC) for material traceability, along with a Working Load Limit, and the name Crosby or "CG" forged into it.
- All hooks incorporate Crosby's patented QUIC-CHECK® deformation indicators to help in determining if throat opening dimension has changed.
- Each hook is equipped with a Crosby S-4320 heavy duty stamped latch with the high cycle, long life spring.
- Forged alloy steel, Quenched & Tempered.



4

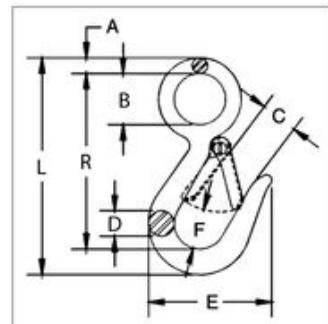
**A-350L Sliding Choker Hook**

Single Part Rope Size (in. - mm)	Eight Part Rope Size (mm)	Stock No.	WLL (t)	Weight Each (kg)	Dimensions (mm)												Hook Frame Code	Replacement Latch Kit Stock No.
					A	B	C	D	E	F	G	H	L	P	R	AA*		
3/8 - 10	-	1011802	1.13	.35	52.5	28.7	16.0	61.0	16.0	9.65	21.3	23.1	109	66.0	16.0	38.1	DA	1096325
1/2 - 13	3	1011811	1.50	.54	57.0	33.3	19.1	75.5	19.8	12.7	24.6	26.9	126	78.5	19.1	38.1	FA	1096374
† 5/8 - 16	-	1011820	2.27	1.31	77.5	41.4	19.1	90.5	23.9	14.2	28.7	33.3	162	98.5	25.4	50.8	GA	1096421
† 5/8 - 16	4	1011839	2.27	1.22	77.5	41.4	25.4	90.5	23.9	14.2	28.7	33.3	162	102	28.7	50.8	GA	1096421
† 3/4 - 20	-	1011848	3.63	2.35	86.0	54.0	25.4	108	29.5	16.0	36.6	41.4	195	116	28.7	63.5	HA	1096468
† 3/4 - 20	6-7	1011857	3.63	2.27	86.0	54.0	36.6	108	29.5	16.0	36.6	41.4	195	121	28.7	63.5	HA	1096468
†† 7/8-1 - 22-25	-	1028177	6.75	4.40	112	53.8	31.8	154	35.8	22.4	51.0	59.2	243	145	38.1	76.2	IA	1096515

\*Deformation indicators. †Determine eye diameter "C" before ordering. ††22-25mm is cast steel.

**G-3315**

- Forged carbon steel, Quenched & Tempered.
- Pressed steel latches and stainless steel springs, bolts and nuts.
- For replacement latch kit, order Stock No. 9900299.
- Hook body - galvanized.
- Do not attach slings or other devices in hook for overhead lifting.

**G-3315 Snap Hook**

Hook Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)							
				A	B	C	D	E	F	L	R
12	1023056	.34	.11	6.35	19.1	19.1	11.2	57.0	19.1	100	82.5
14	1023074	.45	.22	8.65	28.4	20.6	14.2	68.5	22.4	120	97.5

4:1 Design Factor.



### S-377

- Forged carbon steel, Quenched & Tempered.
- The resultant load on each hook cannot exceed 0.5t.
- Meets the performance requirements of Federal Specification RR-C-271G, Type V, Class 6, except for those provisions required of the contractor.



### S-377 Barrel Hooks

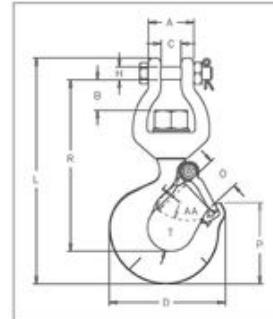
Working Load Limit Per Pair (t)	Stock No. Per Pair	Weight Each Per Pair (kg)	Dimensions (mm)			
			I.D. of Eye	O.D. of Eye	Overall Length	Width of Lip
1.0	1028248	1.61	39.6	71.4	127	73.2

4:1 Design Factor.



### S-3316

- Easily attaches to any chain and electric hoist with welded link load chain, roller chain or wire rope with suitable end fitting.
- Swivel jaw is forged.
- Suitable for positioning before lifting.



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Load Rated



### S-3316 Replacement Hook

Working Load Limit (t)	Frame Code	Stock No.	Weight Each (kg)	Dimensions (mm)												Replacement Latch Kit Stock No.
				A	B	C	D	H	L	O	P	R	T	AA		
.5	F	1023029	.57	33.5	17.8	14.2	80.0	9.7	159	24.4	56.4	120	25.1	50.8	1096374	
1	H	1023047	1.18	33.5	25.4	17.0	101	11.2	197	29.5	70.6	150	29.5	50.8	1096468	

5:1 Design Factor.



### A-378

- Forged alloy steel, Quenched & Tempered.
- Deep straight throat permits efficient handling of flat plates or large cylindrical shapes.



A-378  
with Handle

### A-378 Sorting Hook

Working Load Limit at tip of Hook (t)	Working Load Limit at bottom of Hook (t)	Stock No.	Style	Weight Each (kg)	Dimensions (mm)			
					I.D. of Eye	Overall Length	Opening at top of Hook	Radius at bottom of Hook
1.8	6.8	1028024	No Handle	2.91	35.0	246	71.4	15.9
1.8	6.8	1028033	With Handle	2.91	35.0	246	71.4	15.9

4:1 Design Factor.

**Crosby® Forged Swivels**

- 402 and 403 forged swivels are positioning devices and are not intended to rotate under load.
- Hot-dip galvanized.
- Quenched & Tempered.
- Crosby products meet or exceed all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, Crosby products meet other critical performance requirements, including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- G-402 swivels meet the performance requirements of Federal Specification RR-C-271G, Type VII, Class 2, except for those provisions required of the contractor.
- G-403 swivels meet the performance requirements of Federal Specification RR-C-271G, Type VII, Class 3, except for those provisions required of the contractor.

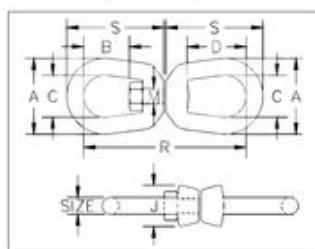
4



13 - 32mm size



38mm size

**G-402 Regular Swivels**

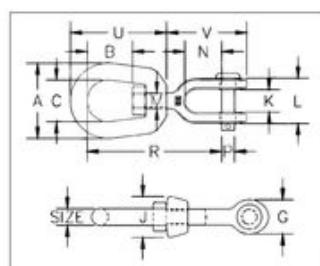
Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)							
				A	B	C	D	J	M	R	S
6	1016019	.39	.10	31.8	17.5	19.1	26.9	17.5	7.85	74.6	42.9
8	1016037	.57	.18	41.4	20.6	25.4	31.8	20.6	9.65	90.4	52.3
10	1016055	1.02	.32	51.0	23.9	31.8	38.1	25.4	12.7	109	63.5
13	1016073	1.63	.60	63.5	33.3	38.1	51.0	33.3	16.0	138	81.0
16	1016091	2.36	1.13	76.0	39.5	44.5	60.5	38.1	19.1	167	98.5
19	1016117	3.27	1.82	89.0	44.5	51.0	67.0	47.8	22.4	183	109
22	1016135	4.54	2.83	102	52.0	57.0	77.5	54.0	25.4	213	127
25	1016153	5.67	4.06	114	58.5	63.5	89.0	60.5	28.7	245	146
32	1016199	8.16	7.42	143	68.5	79.5	93.5	76.0	38.1	291	172
38	1016215	20.5	20.8	180	98.5	104	98.5	95.2	57.0	424	252

5:1 Design Factor.

**G-403 Jaw End Swivels**

Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)									
				A	B	C	G	J	K	L	M	N	P
6	1016395	.39	.10	31.8	17.5	19.1	17.5	17.5	11.9	26.2	7.9	22.4	6.4
8	1016411	.57	.15	41.4	20.6	25.4	20.6	20.6	12.7	28.7	9.7	22.4	7.9
10	1016439	1.02	.30	51.0	23.9	31.8	25.4	25.4	16.0	35.8	12.7	26.9	9.7
13	1016457	1.63	.61	63.5	33.3	38.1	33.3	33.3	19.1	44.5	16.0	33.3	12.7
16	1016475	2.36	1.12	76.0	39.5	44.5	41.4	38.1	23.9	52.0	19.1	38.1	16.0
19	1016493	3.27	1.76	89.0	44.5	51.0	47.8	47.8	28.7	64.5	22.4	44.5	19.1
22	1016518	4.54	2.66	102	52.0	57.0	54.0	54.0	34.0	70.9	25.4	52.0	22.4
25	1016536	5.67	4.46	114	58.5	63.5	67.0	60.5	44.5	94.5	28.7	71.5	28.7
32	1016572	8.16	7.14	145	68.5	79.5	79.5	76.0	52.0	109	41.4	71.5	35.1
38+	1016590	20.5	24.8	178	98.5	102	143	102	73.0	152	57.0	113	57.0

5:1 Design Factor.





### Crosby® Tapered Roller Bearing Swivels

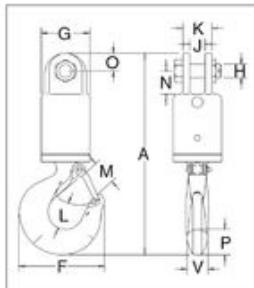
- Equipped with tapered roller thrust bearing.
- Suitable for frequent rotation under load.
- All swivels individually proof tested to 2 times the Working Load Limit with labeled documentation.
- All hooks furnished with latches assembled.
- All jaws complete with bolts, nuts, and cotter pins.
- Pressure lube fitting provided.
- NOT TO BE USED ON DEMOLITION (WRECKING) BALLS.
- Other types and capacities up to 1,250t available to meet your requirements. Visit [thecrosbygroup.com/engineeredsolutions](http://thecrosbygroup.com/engineeredsolutions) for more information.
- IMPORTANT - Crosby swivels should only be used with the recommended wire rope. Contact the wire rope manufacturer for the proper wire rope to be used with Crosby swivels.



Load Rated

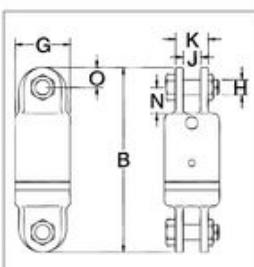


### S-1 Jaw & Hook



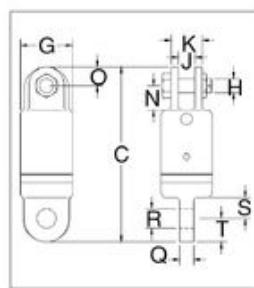
5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

### S-2 Jaw & Jaw



5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

### S-3 Jaw & Eye

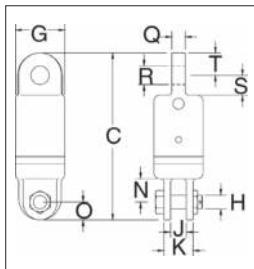


5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

Swivel No.	Stock No.	Working Load Limit (t)	Wire Rope Size (mm)	Weight Each (kg)	Dimensions (mm)											
					A	F	G	H	J	K	L	M	N	O	P	V
3-S-1	297011	3	13	4.45	291	123	70.0	19.1	22.4	41.1	38.9	35.8	33.3	25.4	36.6	28.4
5-S-1	297217	5	16	7.04	339	160	76.0	22.4	25.4	57.0	49.3	42.9	41.1	28.4	46.0	36.6
8-S-1	297413	8.5	19	13.3	418	192	102	25.4	39.5	71.5	62.5	56.5	54.0	35.1	57.0	41.1
10-S-1	297618	10	22	21.2	502	212	114	38.1	44.5	86.0	66.0	61.0	89.0	44.5	66.0	49.3
15-S-1	297814	15	26	33.5	565	263	127	38.1	44.5	86.0	71.5	81.0	89.0	44.5	76.0	60.5
25-S-1	298118	25	-	64	680	346	152	51.0	51.0	117	87.5	92.0	93.5	60.5	93.0	76.0
35-S-1	298216	35	-	100	760	357	165	51.0	51.0	117	98.5	95.5	93.5	60.5	116	81.0
45-S-1	298314	45	-	114	891	392	178	57.0	63.5	127	121	108	102	76.0	129	82.5

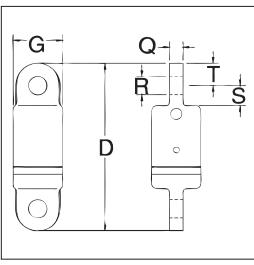
Swivel No.	Stock No.	Working Load Limit (t)	Wire Rope Size (mm)	Weight Each (kg)	Dimensions (mm)									
					B	G	H	J	K	N	O			
3-S-2	297020	3	13	4.37	236	70.0	19.1	22.4	41.1	33.3	25.4			
5-S-2	297226	5	16	6.21	262	76.0	22.4	25.4	57.0	41.1	28.4			
8-S-2	297422	8.5	19	11.9	321	102	25.4	39.5	71.5	54.0	35.1			
10-S-2	297627	10	22	20.8	426	114	38.1	44.5	86.0	89.0	44.5			
15-S-2	297823	15	26	28.5	435	127	38.1	44.5	86.0	89.0	44.5			
25-S-2	298127	25	-	64	527	152	51.0	51.0	117	93.5	60.5			
35-S-2	298225	35	-	70	527	165	51.0	51.0	117	93.5	60.5			
45-S-2	298323	45	-	107	641	178	57.0	63.5	127	102	76.0			

Swivel No.	Stock No.	Working Load Limit (t)	Wire Rope Size (mm)	Weight Each (kg)	Dimensions (mm)										
					C	G	H	J	K	N	O	Q	R	S	T
3-S-3	297039	3	13	4.14	237	70.0	19.1	22.4	41.1	33.3	25.4	19.1	26.2	28.4	31.8
5-S-3	297235	5	16	6.12	256	76.0	22.4	25.4	57.0	41.1	28.4	25.4	32.5	31.8	31.8
8-S-3	297431	8.5	19	11.3	311	102	25.4	39.5	71.5	54.0	35.1	31.8	35.8	41.1	38.1
10-S-3	297636	10	22	19.7	409	114	38.1	44.5	86.0	89.0	44.5	42.9	42.9	70.0	47.8
15-S-3	297832	15	26	27.7	425	127	38.1	44.5	86.0	89.0	44.5	49.3	51.5	70.0	54.0
25-S-3	298136	25	-	61	546	152	51.0	51.0	117	93.5	60.5	57.0	58.5	98.5	60.5
35-S-3	298234	35	-	68	546	165	51.0	51.0	117	93.5	60.5	57.0	58.5	98.5	60.5
45-S-3	298332	45	-	102	657	178	57.0	63.5	127	102	76.0	63.5	64.5	102	76.0

**S-4 Eye & Jaw**


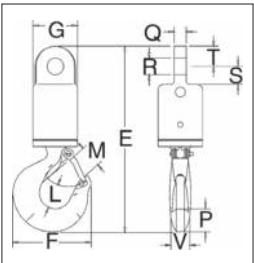
Swivel No.	Stock No.	Working Load Limit (t)	Wire Rope Size (mm)	Weight Each (kg)	Dimensions (mm)										
					C	G	H	J	K	N	O	Q	R	S	T
3-S-4	297048	3	13	4.08	237	70.0	19.1	22.4	41.1	33.3	25.4	19.1	26.2	28.4	31.8
5-S-4	297244	5	16	5.60	256	76.0	22.4	25.4	57.0	41.1	28.4	25.4	32.5	31.8	31.8
8-S-4	297440	8.5	19	13.2	311	102	25.4	39.5	71.5	54.0	35.1	31.8	35.8	41.1	38.1
10-S-4	297645	10	22	20.0	409	114	38.1	44.5	86.0	89.0	44.5	42.9	42.9	70.0	47.8
15-S-4	297841	15	26	27.7	425	127	38.1	44.5	86.0	89.0	44.5	49.3	51.5	70.0	54.0
25-S-4	298145	25	-	61	546	152	51.0	51.0	117	93.5	60.5	57.0	58.5	98.5	60.5
35-S-4	298243	35	-	68	546	165	51.0	51.0	117	93.5	60.5	57.0	58.5	98.5	60.5
45-S-4	298341	45	-	102	657	178	57.0	63.5	127	102	76.0	63.5	64.5	102	76.0

5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

**S-5 Eye & Eye**


Swivel No.	Stock No.	Working Load Limit (t)	Wire Rope Size (mm)	Weight Each (kg)	Dimensions (mm)						
					D	G	Q	R	S	T	
3-S-5	297057	3	13	3.86	239	70.0	19.1	26.2	28.4	31.8	
5-S-5	297253	5	16	5.13	249	76.0	25.4	32.5	31.8	31.8	
8-S-5	297459	8.5	19	13.3	302	102	31.8	35.8	41.1	38.1	
10-S-5	297654	10	22	19.1	394	114	42.9	42.9	70.0	47.8	
15-S-5	297850	15	26	22.2	416	127	49.3	51.5	70.0	54.0	
25-S-5	298154	25	-	59	565	152	57.0	58.5	98.5	60.5	
35-S-5	298252	35	-	66	565	165	57.0	58.5	98.5	60.5	
45-S-5	298350	45	-	98	673	178	63.5	64.5	102	76.0	

5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

**S-6 Eye & Hook**


Swivel No.	Stock No.	Working Load Limit (t)	Wire Rope Size (mm)	Weight Each (kg)	Dimensions (mm)										
					E	F	G	L	M	P	Q	R	S	T	V
3-S-6	297066	3	13	4.23	292	123	70.0	38.9	35.8	36.6	19.1	26.2	28.4	31.8	28.4
5-S-6	297262	5	16	6.46	332	160	76.0	49.3	42.9	46.0	25.4	32.5	31.8	31.8	36.6
8-S-6	297468	8.5	19	14.5	408	192	102	62.5	56.5	57.0	31.8	35.8	41.1	38.1	41.1
10-S-6	297663	10	22	20.6	486	212	114	66.0	61.0	66.0	42.9	42.9	70.0	47.8	49.3
15-S-6	297869	15	26	28.6	540	263	127	71.5	81.0	76.0	49.3	51.5	70.0	54.0	60.5
25-S-6	298163	25	-	61	699	346	152	87.5	92.0	93.0	57.0	58.5	98.5	60.5	76.0
35-S-6	298261	35	-	98	780	357	165	98.5	95.5	116	57.0	58.5	98.5	60.5	81.0
45-S-6	298369	45	-	122	907	392	178	121	108	129	63.5	64.5	102	76.0	82.5

5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

## Crosby® Angular Contact Bearing Swivels



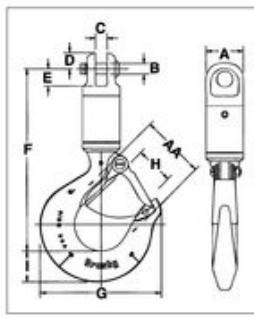
- Designed for high rotation speed, lower torque required to initiate rotation.
- Angular contact bearings maximize efficiency, reliability, and service life of swivel and extend the life of the wire rope.
- Entire swivel is zinc plated to resist corrosion.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Hook models utilize genuine Crosby hooks which are forged alloy steel, quenched and tempered, and contain patented QUIC-CHECK® markings.
- Each swivel 7.65 metric tons and larger is furnished with a pressure lubrication fitting.
- For swivels larger than those listed, visit [thecrosbygroup.com/engineeredsolutions](http://thecrosbygroup.com/engineeredsolutions) for more information.

Load Rated

QUIC-CHECK®

CE

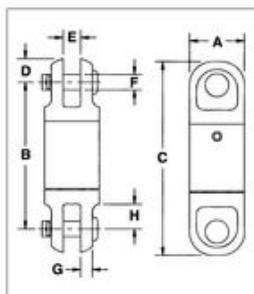
### AS-1 Jaw & Hook



AS-1 JAW & HOOK				Dimensions (mm)										Deformation Indicator AA	Replacement Latch Kit Stock No.
Working Load Limit (t)	Wire Rope Size (mm)	Stock No.	Weight Each (kg)	A	B	C	D	E	F	G	H	I			
.40	3	1016001	.32	22.4	6.35	6.35	9.65	10.4	110	72.5	23.6	18.5	38.1	1096325	
.68	6	1016010	.68	33.3	9.65	7.85	11.2	14.2	138	80.0	24.6	21.3	38.1	1096374	
1.35	10	1016025	1.04	41.4	12.7	12.7	17.5	19.8	161	102	29.5	29.0	38.1	1096374	
2.70	13	1016026	2.95	51.0	19.1	19.1	23.9	30.2	221	123	35.8	36.6	63.5	1096374	
4.50	16	1016040	5.85	63.5	22.4	25.4	28.7	38.9	272	160	42.9	46.2	76.0	1096562	
7.65	19	1016045	12.0	76.0	30.2	39.5	34.0	53.0	347	212	61.0	66.0	102	1096657	
9.00	22	1016056	24.0	102	38.1	44.5	44.5	89.0	456	263	81.0	76.0	127	1096704	
13.5	25	1016064	24.0	102	38.1	44.5	44.5	89.0	456	263	81.0	76.0	127	1096704	
22.5	32	1016075	44.0	127	51.0	51.0	60.5	93.5	530	346	82.5	92.0	165	1090161	
31.5	38	1016082	63.5	127	51.0	51.0	60.5	93.5	610	357	76.0	116	178	1090189	

5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

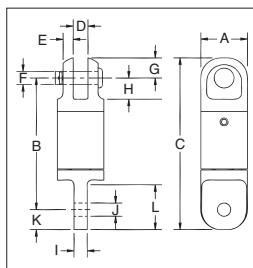
### AS-2 Jaw & Jaw



AS-2 JAW & JAW				Dimensions (mm)							
Working Load Limit (t)	Wire Rope Size (mm)	Stock No.	Weight Each (kg)	A	B	C	D	E	F	G	H
.40	3	1016103	.18	22.4	60.5	79.5	9.65	6.35	6.35	4.80	10.4
.68	6	1016114	.41	33.3	90.0	113	11.2	7.85	9.65	5.60	14.2
1.35	10	1016122	.91	41.4	103	138	17.5	12.7	12.7	7.10	19.8
2.70	13	1016131	2.22	51.0	159	207	23.9	19.1	19.1	9.65	30.2
4.50	16	1016139	4.35	63.5	197	270	28.7	25.4	22.4	13.5	38.9
7.65	19	1016148	7.17	76.0	245	313	34.0	39.5	30.2	14.2	53.0
9.00	22	1016157	18.1	102	356	445	44.5	44.5	38.1	20.6	89.0
13.5	25	1016166	18.1	102	356	445	44.5	44.5	38.1	20.6	89.0
22.5	32	1016175	35.4	127	405	526	60.5	51.0	51.0	28.7	93.5
31.5	38	1016184	35.4	127	405	526	60.5	51.0	51.0	28.7	93.5

5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

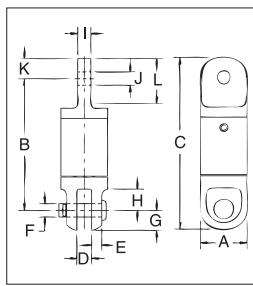
### AS-3 Jaw & Eye



Working Load Limit (t)	Wire Rope Size (mm)	Stock No.	AS-3 JAW & EYE			Dimensions (mm)											
			Weight Each (kg)	A	B	C	D	E	F	G	H	I	J	K	L		
.40	3	1016205	.14	22.4	63.5	82.5	6.35	4.80	6.35	9.65	10.4	6.35	6.35	9.65	21.3		
.68	6	1016216	.41	33.3	93.5	116	7.85	5.60	9.65	11.2	14.2	7.85	9.65	11.0	22.4		
1.35	10	1016224	.86	41.4	106	138	12.7	7.10	12.7	17.5	19.8	12.7	16.8	16.0	35.1		
2.70	13	1016232	2.09	51.0	157	207	19.1	9.65	19.1	23.9	30.2	19.1	23.1	25.0	51.0		
4.50	16	1016243	4.13	63.5	200	259	25.4	13.5	22.4	28.7	38.1	25.4	31.8	30.0	67.0		
7.65	19	1016250	7.08	76.0	241	311	39.5	14.2	31.8	34.0	53.0	31.8	35.8	38.0	79.5		
9.00	22	1016259	17.7	102	349	440	44.5	20.6	38.1	44.5	89.0	43.7	41.4	46.0	119		
13.5	25	1016268	18.1	102	341	440	44.5	20.6	38.1	44.5	89.0	51.0	51.0	54.0	119		
22.5	32	1016277	35.4	127	406	527	51.0	28.7	51.0	60.5	93.5	57.0	58.5	61.0	133		
31.5	38	1016286	35.4	127	406	527	51.0	28.7	51.0	60.5	93.5	57.0	58.5	61.0	133		

5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

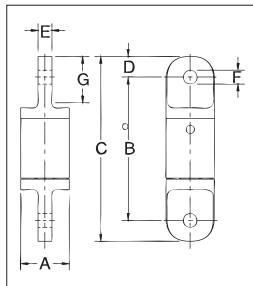
### AS-4 Eye & Jaw



Working Load Limit (t)	Wire Rope Size (mm)	Stock No.	AS-4 EYE & JAW			Dimensions (mm)											
			Weight Each (kg)	A	B	C	D	E	F	G	H	I	J	K	L		
.40	3	1016306	.14	22.4	63.5	82.5	6.35	4.80	6.35	9.65	10.4	6.35	6.35	9.65	20.6		
.68	6	1016314	.41	33.3	92.0	116	7.85	5.60	9.65	11.2	14.2	7.85	9.65	11.0	22.4		
1.35	10	1016325	.86	41.4	106	140	12.7	7.10	12.7	17.5	19.8	12.7	16.8	16.0	34.0		
2.70	13	1016332	2.09	51.0	157	207	19.1	9.65	19.1	23.9	30.2	19.1	23.1	25.4	51.0		
4.50	16	1016343	4.13	63.5	200	259	25.4	13.5	22.4	28.7	36.6	25.4	31.8	30.2	67.0		
7.65	19	1016352	7.12	76.0	240	311	39.5	14.2	30.2	34.0	53.0	31.8	35.8	38.1	79.5		
9.00	22	1016361	17.7	102	359	451	44.5	20.6	38.1	44.5	89.0	43.7	42.2	46.0	119		
13.5	25	1016370	18.1	102	351	451	44.5	20.6	38.1	44.5	89.0	51.0	51.5	54.0	119		
22.5	32	1016375	34.0	127	405	527	51.0	28.7	51.0	60.5	93.5	57.0	58.5	60.5	133		
31.5	38	1016379	34.0	127	405	527	51.0	28.7	51.0	60.5	93.5	57.0	58.5	60.5	133		

5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

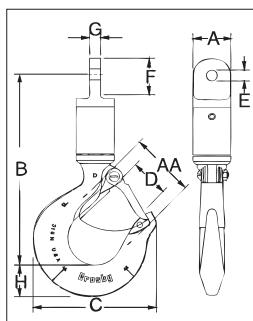
### AS-5 Eye & Eye



Working Load Limit (t)	Wire Rope Size (mm)	Stock No.	AS-5 EYE & EYE			Dimensions (mm)											
			Weight Each (kg)	A	B	C	D	E	F	G							
.40	3	1016409	.14	22.4	67.0	86.0	9.65	6.35	6.35	20.6							
.68	6	1016418	.41	33.3	95.0	118	11.2	7.85	9.65	22.4							
1.35	10	1016427	.82	41.4	110	141	16.0	12.7	16.8	34.0							
2.70	13	1016436	1.95	51.0	156	207	25.4	19.1	23.1	51.0							
4.50	16	1016445	3.90	63.5	197	270	30.2	25.4	31.8	67.0							
7.65	19	1016454	7.00	76.0	237	313	38.1	31.8	35.8	79.5							
9.00	22	1016463	16.8	102	353	445	46.0	43.7	41.4	119							
13.5	25	1016472	17.7	102	337	445	54.0	51.0	54.0	119							
22.5	32	1016481	32.7	127	406	527	60.5	57.0	58.5	133							
31.5	38	1016490	32.7	127	406	527	60.5	57.0	58.5	133							

5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

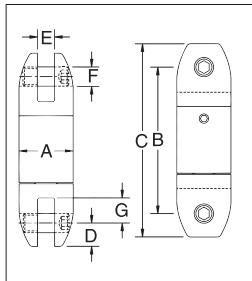
### AS-6 Eye & Hook



Working Load Limit (t)	Wire Rope Size (mm)	Stock No.	AS-6 EYE & HOOK			Dimensions (mm)											
			Weight Each (kg)	A	B	C	D	E	F	G	H	AA	Replacement Latch Kit Stock No.				
.40	3	1016502	.32	22.4	111	72.5	23.6	6.35	20.6	6.35	18.5	38.1	1096325				
.68	6	1016513	.68	33.3	141	80.0	24.6	9.65	22.4	7.85	21.3	38.1	1096374				
1.35	10	1016520	1.32	41.4	158	102	29.5	16.8	34.0	12.7	29.0	51.0	1096374				
2.70	13	1016529	2.81	51.0	219	123	35.8	23.1	51.0	19.1	36.6	63.5	1096374				
4.50	16	1016538	5.62	63.5	274	160	42.9	31.8	67.0	25.4	46.2	76.0	1096562				
7.65	19	1016547	10.7	76.0	343	212	61.0	35.6	79.5	31.8	66.0	102	1096657				
9.00	22	1016556	23.6	102	459	263	81.0	42.2	119	43.7	76.0	127	1096704				
13.5	25	1016565	24.0	102	448	263	81.0	51.5	119	51.0	76.0	127	1096704				
22.5	32	1016574	42.6	127	530	346	82.5	59.0	133	57.0	92.0	165	1090161				
31.5	38	1016583	62.6	127	610	357	76.0	59.0	133	57.0	116	178	1090189				

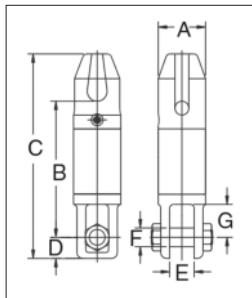
5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

### AS-7 Bullet Style Jaw & Jaw



AS-7 BULLET STYLE JAW & JAW				Dimensions (mm)						
Working Load Limit (t)	Wire Rope Size (mm)	Stock No.	Weight Each (kg)	A	B	C	D	E	F	G
.40	3	1016604	.18	22.4	60.5	79.5	9.65	6.35	7.85	10.2
.68	6	1016611	.50	33.3	90.0	113	11.2	7.85	9.65	14.2
1.35	10	1016622	.82	41.4	103	132	14.2	12.7	11.2	20.6
2.70	13	1016631	1.72	51.0	138	179	20.6	19.1	16.0	23.9
4.50	16	1016640	3.63	63.5	197	256	28.7	25.4	22.4	39.5
7.65	19	1016649	6.58	76.0	251	314	31.8	33.3	25.4	54.0
9.00	22	1016652	18.1	102	334	425	44.5	44.5	38.1	82.5
13.5	25	1016658	18.1	102	334	425	44.5	44.5	38.1	82.5
22.5	32	1016662	38.1	127	405	527	60.5	51.0	51.0	93.5
31.5	38	1016667	38.1	127	405	527	60.5	51.0	51.0	93.5

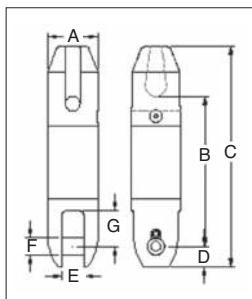
5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.



### AS-11 Thimble & Jaw

AS-11 THIMBLE & JAW				Dimensions (mm)						
Working Load Limit (t)	Wire Rope Size (mm)	Stock No.	Weight Each (kg)	A	B	C	D	E	F	G
7.65	19	1017020	12.0	76.2	22.0	330	34.0	39.6	30.2	53.1
13.5	25	1017029	24.0	102	296	445	44.5	45.0	38.1	89.0

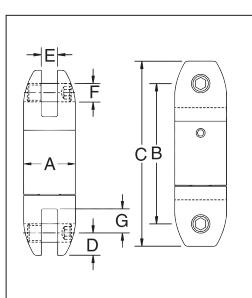
5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.



### AS-14 Thimble & Bullet

AS-14 THIMBLE & BULLET				Dimensions (mm)						
Working Load Limit (t)	Wire Rope Size (mm)	Stock No.	Weight Each (kg)	A	B	C	D	E	F	G
7.7	20	1017255	9.0	76.2	229	337	31.8	33.3	25.4	54.1
13.6	26	1017258	18.0	102	292	441	44.5	44.5	38.1	82.6
22.7	32	1017261	37.0	127	363	538	60.5	50.8	50.8	93.7

5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.



### AS-17 Bullet Style Jaw & Jaw Slurry Swivel

AS-17 BULLET JAW & SLURRY SWIVEL				Dimensions (mm)						
Working Load Limit (t)	Wire Rope Size (mm)	Stock No.	Weight Each (kg)	A	B	C	D	E	F	G
7.65	19	8013342	6.57	76.2	257	321	31.8	33.3	25.4	54.1
13.5	25	8013343	18.1	102	343	432	44.5	44.5	38.1	82.5
22.5	32	8013376	38.1	127	410	531	60.5	51.0	51.0	93.7
31.5	38	8013344	38.1	127	410	531	60.5	51.0	51.0	93.7
40.5	-	2016585	68.0	152	514	666	76.2	64.3	57.2	69.9

5:1 Design Factor. Individually Proof Tested to 2 times the Working Load Limit.

# BK Safety Hook

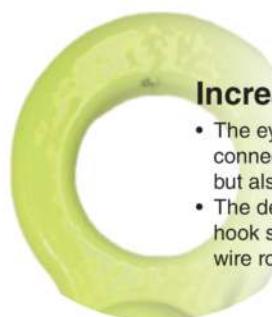
## The Original

In 1965, the innovative Gunnebo Industries BK Safety Hook increased job site safety in the construction industry. Today the BK Safety Hook is the foundation of the renowned BK product family.



Watch a BK Safety Hook with Double Latch BKD demo at [\[YouTube link\]](#)

4



### Increased flexibility

- The eye design enables connection to not only G-links, but also C-links and Berglok.
- The design makes the BK hook suitable for steel wire ropes.



### Heavy duty rivet

- Recessed rivet for a slim design.
- Decreases the risk of snagging.
- Ideal in narrow spaces.

### Quality is top priority

- Fatigue tested.
- Forged alloy steel.
- Hardened and tempered.
- Every hook is individually proof-loaded at 2.5 x WLL.
- Full traceability back to the raw material.



### Precision manufacturing

- Perfect fit between the parts.
- Increases safety during operation.



### Fluorescent color

- For high visibility in the field.

### Clear markings

- Country of origin.
- Traceability codes.
- Model, size, and grade.



### Flat section

- For attachment to other GrabIQ or wire components.



### Latch rotation stop

- Protects the trigger mechanism from damage.

### Replaceable trigger set

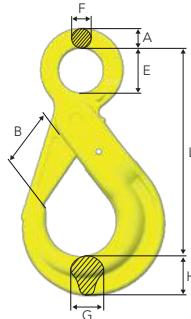
- Quick and easy assembly.
- Available as a complete spare part kit.

### Recessed trigger

- To avoid the trigger from snagging or being damaged, it has been recessed into the body of the hook.
- Helps to prevent the latch from accidentally opening.

## Safety Hook BK

The "original" safety hook with eye connector.



Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			A	L	B	E	F	G	H	
Z101108	BK-6-10	1.5	12	109	29	22	10	15	21	0.5
Z101097	BK-7/8-10	2.6	14	138	37	28	11	17	26	0.9
Z101024	BK-10-10	4.0	16	168	45	34	13	21	31	1.5
Z101032	BK-13-10	6.8	20	207	55	44	16	30	40	3.0
Z101040	BK-16-10	10.3	26	254	62	56	20	37	50	5.5
Z101089	BK-18/20-10	16.0	30	289	68	60	22	44	64	9.0
Z101325	BK-22-10	20.0	32	320	80	70	24	50	64	11.3
Z101326	BK-26-10	27.3	35	342	100	80	25	54	68	16.5

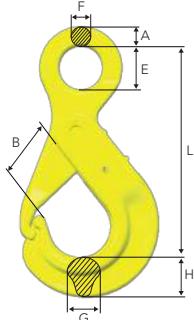
Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

For larger sizes, see Classic Grade 8.

4:1 Design Factor

## Safety Hook OBK

Safety hook with eye connector and grip latch.

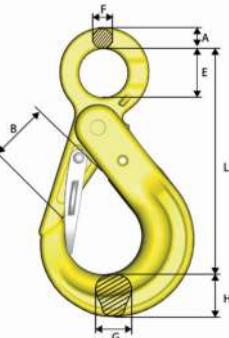


Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			A	L	B	E	F	G	H	
Z101048	OBK-6-10	1.5	12	103	26	22	9	15	17	0.4
Z101143	OBK-7/8-10	2.6	14	139	37	28	10	20	22	0.8
Z101145	OBK-10-10	4.0	16	170	47	34	13	22	29	1.3
Z101147	OBK-13-10	6.8	21	206	53	44	15	29	38	2.6
Z101141	OBK-16-10	10.3	26	251	68	56	19	29	45	4.4
Z101240	OBK-18/20-10	16.0	28	293	74	60	22	44	56	8.3

For larger sizes see Classic Grade 8(OBK-22-8). Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.  
4:1 Design Factor. For larger sizes see Classic Grade 8 (OBK-22-8).

## Safety Hook BKD

Double latch BK-hook with recessed trigger. Should the first hook latch accidentally open, either through direct impact or excessive wear on the trigger, the extra latch is there to retain the load safely. The secondary latch is designed to be easily operated and will not cause inconvenience for the operator.



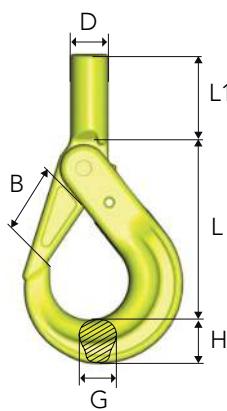
Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			A	L	B	E	F	G	H	
Z101154	BKD-13-10	6.8	20	207	44	44	16	30	40	3.2
Z101155	BKD-16-10	10.3	26	254	48	56	20	37	50	5.8
Z101156	BKD-18/20-10	16.0	30	289	52	60	22	46	62	9.1
Z101373	BKD-26-10	27.3	35	342	72	80	25	54	68	16.8

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

4:1 Design Factor

## Shank Safety Hook BKT

Safety hook with shank ready for customized machines.



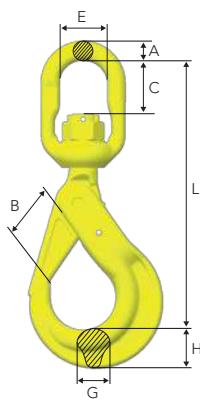
Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	L1	D	d min	G	H	
Z101120	BKT-6-10	1.5	90	29	36	20	11	15	21	0.5
Z101120	BKT-7/8-10	2.6	111	37	47	24	13	17	26	0.9
Z1010690	BKT-10-10	4.0	133	45	51	29	16	21	31	1.6
Z1010710	BKT-13-10	6.8	160	55	77	34	20	30	39	3.0

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

d min = the smallest permitted shank dimension after machining.

Note! After machining of the shank, proof loading must be carried out.

4:1 Design Factor



## Swivel Safety Hook BKL

Safety hook with swivel for improved positioning of the hook before the load is lifted (360° rotation).

Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	C	E	A	G	H	
Z101114	BKL-6-10	1.5	149	29	23	33	11	15	21	0.7
Z101104	BKL-7/8-10	2.6	183	37	27	38	12	17	26	1.2
Z101028	BKL-10-10	4.0	218	45	37	44	15	21	31	2.0
Z101036	BKL-13-10	6.8	282	55	49	48	19	30	40	4.0
Z101044	BKL-16-10	10.3	341	62	65	61	25	37	50	7.2
Z101093	BKL-18/20-10	16.0	368	68	70	72	31	44	62	11.4

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

4:1 Design Factor

## Swivel Safety Hook BKLK

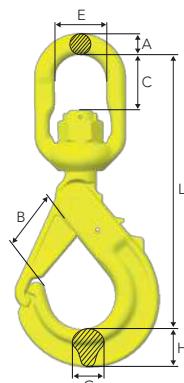
Safety hook with ball-bearing for 360° rotation under full WLL.

Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	C	E	A	G	H	
Z101116	BKLK-6-10	1.5	149	29	24	33	11	15	21	0.7
Z101106	BKLK-7/8-10	2.6	183	37	27	38	12	17	26	1.2
Z101030	BKLK-10-10	4.0	218	45	35	44	15	21	31	2.0
Z101038	BKLK-13-10	6.8	280	55	45	48	19	30	40	4.0
Z101046	BKLK-16-10	10.3	339	62	62	61	25	37	50	7.3
Z101095	BKLK-18/20-10	16.0	368	68	60	72	31	44	62	11.5
Z101294	BKLK-22-10	20.0	436	79	80	80	35	50	62	16.8
Z101295	BKLK-26-10	27.3	486	100	110	102	45	54	68	26.0

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

For larger sizes, see Classic Grade 8.

4:1 Design Factor



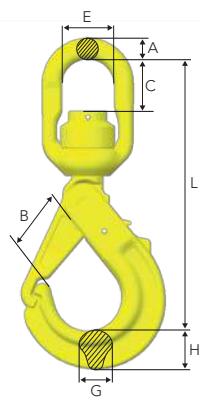
## Swivel Safety Hook with Griplatch LBK

Safety hook with griplatch and swivel for improved positioning of the hook before the load is lifted (360° rotation).

Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	C	E	A	G	H	
Z100978	LBK-7/8-10	2.6	177	37	27	38	12	20	22	1.1
Z100960	LBK-10-10	4.0	214	47	37	44	15	22	29	1.8
Z100993	LBK-13-10	6.8	262	53	45	48	19	29	38	3.5
Z100995	LBK-16-10	10.3	324	68	66	61	25	30	45	5.9

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

4:1 Design Factor



## Swivel Safety Hook with Griplatch LKBK

Safety hook with griplatch and ball-bearing for 360° rotation under full WLL.

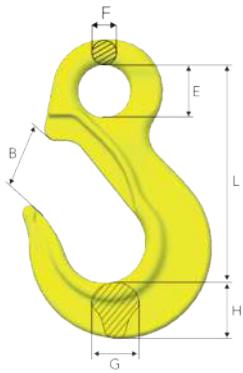
Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	C	E	A	G	H	
Z100980	LKBK-7/8-10	2.6	176	37	27	38	12	20	22	1.1
Z100962	LKBK-10-10	4.0	213	47	35	44	15	22	29	1.9
Z100997	LKBK-13-10	6.8	261	53	43	48	19	29	38	3.6
Z100999	LKBK-16-10	10.3	323	68	61	61	25	30	45	6.2

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

4:1 Design Factor

## Sling Hook EK

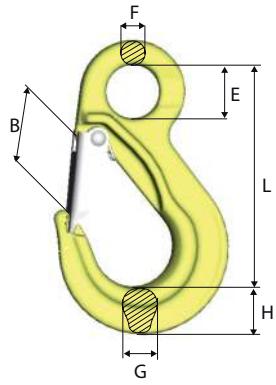
Sling hook with eye connector.



Stock No.	Code	WLL (t)	Dimensions (mm)						Weight (kg)
			L	B	E	F	G	H	
Z101162	EK- 6-10	1.5	93	29	23	10	17	20	0.4
Z101164	EK- 7/8-10	2.6	108	32	28	12	17	23	0.5
Z101166	EK-10-10	4.0	134	41	34	14	23	30	0.9
Z101168	EK-13-10	6.8	166	49	44	18	28	38	2.0
Z101170	EK-16-10	10.3	203	61	56	22	36	47	3.3
Z101306	EK-20-10	16.0	229	71	61	26	42	60	6.2
Z101307	EK-22-10	20.0	267	82	64	31	43	67	8.5
Z101308	EK-26-10	27.3	301	95	66	32	51	75	12.1
Z101309	EK-32-10	40.0	353	105	90	38	61	98	24.6

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M-02.

## Sling Hook EKN (with latch)



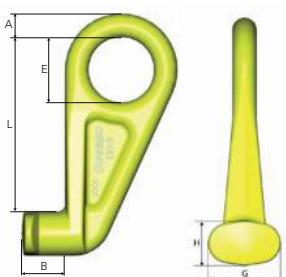
Stock No.	Code	WLL (t)	Dimensions (mm)						Weight (kg)
			L	B	E	F	G	H	
Z101128	EKN- 6-10	1.5	93	25	23	10	17	20	0.4
Z101130	EKN- 7/8-10	2.6	108	26	28	12	17	23	0.6
Z101132	EKN-10-10	4.0	134	37	34	14	23	30	1.0
Z101134	EKN-13-10	6.8	166	42	44	18	28	38	2.1
Z101136	EKN-16-10	10.3	203	53	56	22	36	47	4.0
Z101327	EKN-20-10	16.0	229	60	61	26	42	60	6.4
Z101328	EKN-22-10	20.0	267	73	64	31	43	67	8.9
Z101329	EKN-26-10	27.3	301	82	66	32	51	75	13.0
Z101330	EKN-32-10	40.0	353	96	90	38	61	98	25.0

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

4:1 Design Factor

## Container Hook CH

Made for lifting containers in their lower fittings.

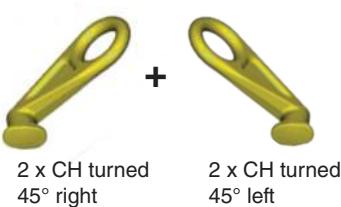
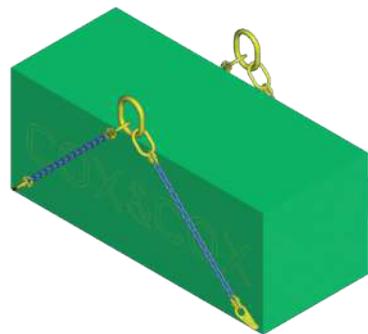
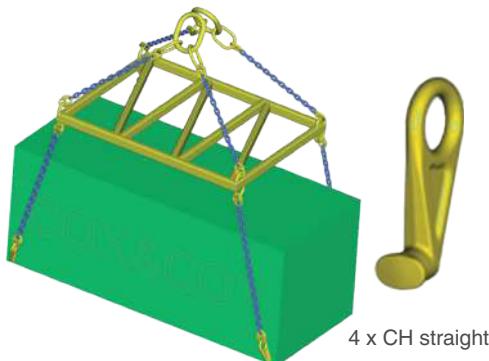


Stock No.	Code	WLL (t)	Dimensions (mm)						Weight (kg)
			A	L	E	B	H	G	
Z101220	CH-3	12.5	25	187	70	46	47	75	3.8
Z101221	CH-3, 45° left	12.5	25	187	70	46	47	75	3.8
Z101219	CH-3, 45° right	12.5	25	187	70	46	47	75	3.8

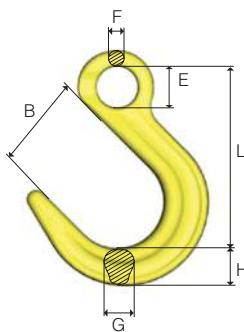
4:1 Design Factor

Alt. 1 - Straight lift

Alt. 2 - Angular lift



## Foundry Hook OKE



Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	E	F	G	H		
Z100853	OKE-7/8-10	2.6	124	63	28	12	21	26	0.8	
Z100854	OKE-10-10	4.0	151	76	34	15	26	30	1.4	
Z100855	OKE-13-10	6.8	184	90	44	19	33	39	2.8	
Z100898	OKE-16-10	10.3	218	102	56	23	40	46	4.9	
Z101340	OKE-20-10	16.0	247	114	60	27	46	60	7.2	
Z101341	OKE-22-10	20.0	275	120	64	31	60	70	11.3	
Z101342	OKE-26-10	27.3	300	113	70	35	64	77	16.0	

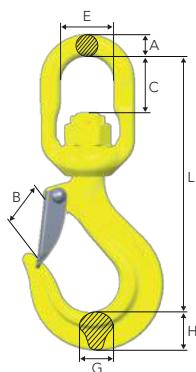
Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

For larger sizes, see Classic Grade 8.

4:1 Design Factor

## Swivel Latch Hook LKN

Sling hook with swivel for improved positioning of the hook before the load is lifted (360° rotation).



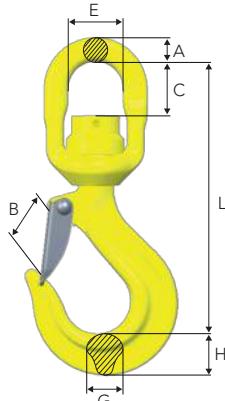
Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	C	E	A	G	H	
Z101345	LKN-7/8-10	2.6	155	28	28	38	12	18	24	0.8
Z101346	LKN-10-10	4.0	192	35	37	44	15	23	31	1.5
Z101347	LKN-13-10	6.8	238	40	47	48	19	28	38	3.1
Z101348	LKN-16-10	10.3	295	53	65	61	25	34	43	5.3

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

4:1 Design Factor

## Swivel Latch Hook LKNK

Swivel latch hook with ball bearing for 360° rotation under full WLL.



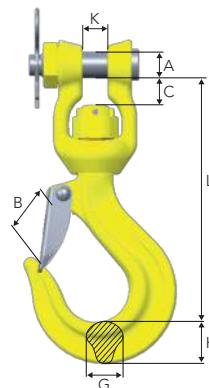
Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	C	E	A	G	H	
Z101349	LKNK-7/8-10	2.6	154	28	28	38	12	18	24	0.9
Z101350	LKNK-10-10	4.0	191	35	35	44	15	23	31	1.6
Z101351	LKNK-13-10	6.8	236	40	45	48	19	28	38	3.3
Z101352	LKNK-16-10	10.3	293	53	62	61	25	34	43	5.6
Z101354	LKNK-22-10	20.0	400	74	80	80	35	43	67	15.1

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

4:1 Design Factor

## Clevis Swivel Hook LKNG

For direct connection to small cranes or similar applications that require positioning of hook.  
Swivel for improved positioning (360°).

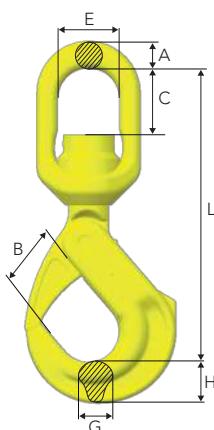


Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	C	A	G	H	K	
Z101353	LKNG-16-10	10.3	258	53	30	28	34	43	27	5.7

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.

4:1 Design Factor

## Swivel Safety Hook BKLK Offshore HDG

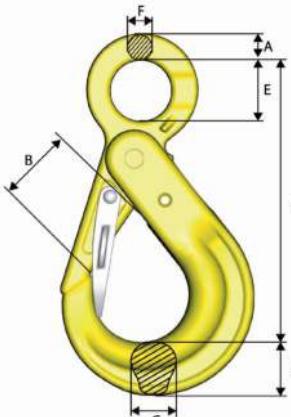


Stock No.	Code	WLL (t) 4:1	WLL (t) 5:1	Dimensions (mm)							Weight (kg)
				L	B	C	E	A	G	H	
ZG101370	BKLK-13-8 OS W HDG	6.7	5.4	307	55	72	61	25	30	40	4.9
ZG101371	BKLK-16-8 OS W HDG	10.3	8.2	365	62	88	82	26	37	50	8.4
ZG1013561	BKLK-18/20-8 OS W HDG	16.0	12.8	395	68	88	80	35	46	64	13.9
ZG101294	BKLK-22-8 OS HDG	20.0	16.0	436	79	80	80	35	50	62	16.8
ZG101295	BKLK-26-8 OS HDG	27.3	21.6	486	100	110	102	45	54	68	26.5
ZG101344	BKLK-32-8 OS HDG	32.8	26.2	533	120	110	102	45	62	86	32.3
With double latch											
ZGS1167	BKLKD-13-8 OS W HDG	6.7	5.4	307	43	72	61	25	30	40	5.0
ZGS1168	BKLKD-16-8 OS W HDG	10.3	8.2	365	48	88	82	26	37	50	8.8
ZGS1169	BKLKD-18/20-8 OS W HDG	16.0	12.8	395	52	88	80	35	46	64	14.3

Manufactured according to requirements in: DNV 2.7-1:2013, DNVGL-ST-0377:2016, DNVGL-ST-0388:2016 and NORSOCK R-002:2017.

## Safety Hook BK & BKLK Offshore with Double Latch

With recessed trigger



Due to the motion of the sea when loading and unloading offshore, direct impact on the hook could cause the latch to unintentionally open when not being under load, risking the load to unhitch. The double latch safety hook has an extra latch retaining the load in this case.

Stock No.	Code	WLL (t)		Dimensions (mm)							Weight (kg)
				A	L	B	E	F	G	H	
Z101154	BKD-13-10	6.8		20	207	44	44	16	30	40	3.2
Z101155	BKD-16-10	10.3		26	254	48	56	20	37	50	5.8
Z101156	BKD-18/20-10	16.0		30	289	52	60	22	46	62	9.1
Z101373	BKD-26-10	27.3		35	342	72	80	25	54	68	16.8

4:1 Design Factor

Double Latch  
Should the hook latch accidentally open, either through direct impact or excessive wear on the trigger, the extra latch is there to retain the load safely. The extra latch is designed to be easily operated.



Recessed Trigger  
To avoid the trigger from being hit or damaged it has been recessed into the hook. This prevents the latch further from accidentally opening.

## Safety Hook BK Offshore

Stock No.	Code	WLL (t) 4:1	WLL (t) 5:1	Dimensions (mm)							Weight (kg)
				L	B	E	F	G	H		
ZG101355	BK-26-8 OS HDG	27.3	21.6	342	100	80	25	54	68		16.5
ZG101364	BK-32-8 OS HDG	32.8	26.2	400	120	90	30	62	86		23.3

Offshore material, impact toughness > 20 ft-lb (42 J) at -4°F.

Manufactured according to requirements in: DNV 2.7-1:2013, DNVGL-ST-0377:2016, DNVGL-ST-0388:2016 and NORSOCK R-002:2017.

## Increased safety in heavy lifting operations

The WRIN STR Handle provides additional safety to the Gunnebo Industries BK Safety Hook family.

### Improved workplace safety

- With the WRIN STR Handle, the operator opens and closes the safety hook without placing their hands inside the hook, resulting in a reduced risk of personal injury on job sites. The handle is easily mounted to the safety hook, without compromising the integrity of design and capabilities of the hook.

### Suitable to any safety hook within the BK family

- The WRIN STR Handle is easily mounted to any safety hook within the BK family.
- For sling shops the WRIN STR Handle is the perfect complement to the BK safety hooks, reducing the need for stocking a large assortment of different safety hooks.
- If the handle is fully operable, it can be mounted and reused on a new hook if the existing hook is worn out.

### Unique design

- The handle will keep the integrity of the hook's design and capabilities uncompromised.
- The handle is clamped to the hook and fixed by the hook's trigger pin.
- Hole for attaching a lead line for easy retrieval.
- Made of stainless steel according to AISI 316.

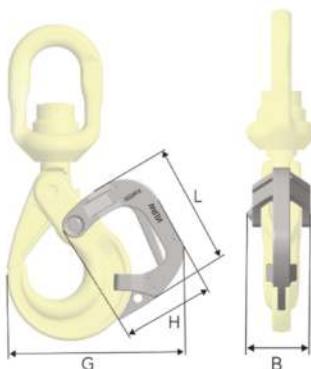


## WRIN STR Handle

Suitable to any safety hook within the Gunnebo Industries BK family.

Stock No.	Code	Hook size (mm)	Dimensions (mm)				Suits the following safety hooks:	Weight (kg)
			L	H	B	G		
Z101413	STRG13	13	145	103	60	184	BK, BKD, BKG, BKL, BKLK, BKLKD	0.75
Z101414	STRG16	16	182	140	80	255	BK, BKD, BKG, BKL, BKLK, BKLKD	1.90
Z101415	STRG20	18/20	194	155	90	280	BK, BKD, BKG, BKL, BKLK, BKLKD	2.50
Z101416	STRG22	22	203	164	90	300	BK, BKLK	2.60
Z101417	STRG26	26	215	192	103	348	BK, BKLK	3.45
Z101418	STRG32	32	263	179	103	380	BK, BKLK	3.90

Material: Stainless steel according to AISI 316.



### Dual surface treatment

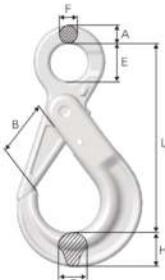


- HDG + powder coat
- Easier to see in low visibility conditions
- Extended service life for unparalleled corrosion protection

Hot-dip galvanized (HDG) hooks for offshore harsh environments. Watch video at [thechosbygroup.com/ductility](#)



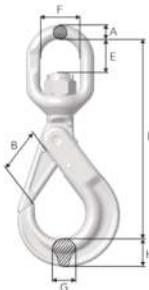
Understanding the importance of high ductility in lifting equipment. Watch video at [thechosbygroup.com/ductility](#)



### Safety Hook BK HDG

Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			A	L	B	E	F	G	H	
ZG101108	BK-6-8 HDG	1.12	12	109	29	22	10	15	21	0.5
ZG101097	BK-7/8-8 HDG	2.0	14	138	37	28	11	17	26	0.9
ZG101024	BK-10-8 HDG	3.2	16	168	45	34	13	21	31	1.5
ZG101032	BK-13-8 HDG	5.4	20	207	55	44	16	30	40	3.0

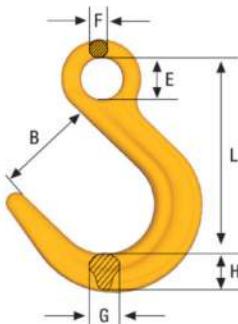
4:1 Design Factor



### Swivel Safety Hook BKL HDG

Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	C	E	A	G	H	
ZG101028	BKL-10-8 HDG	3.2	218	45	37	44	15	21	31	2.0
ZG101036	BKL-13-8 HDG	5.4	282	55	49	48	19	30	40	4.0
ZG101044	BKL-16-8 HDG	8.2	344	62	68	61	25	37	50	7.3

4:1 Design Factor



### Foundry Hook OKE

Stock No.	Code	WLL (t)	Dimensions (mm)						Weight (kg)
			L	B	E	F	G	H	
Z645564	OKE-32-8	32.8	384	145	90	42	77	94	30

Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

4:1 Design Factor



Surface Treatment Production | Växjö, Sweden

## BEHIND THE SCENES

Get a behind-the-scenes look at the innovative processes to manufacture the world's leading rigging, lifting, and load securement hardware.

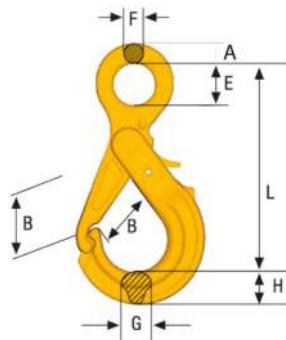
Watch all videos at [thechosbygroup.com](#)



Collaborative Robot | Växjö, Sweden



Testing & Inspection | Växjö, Sweden

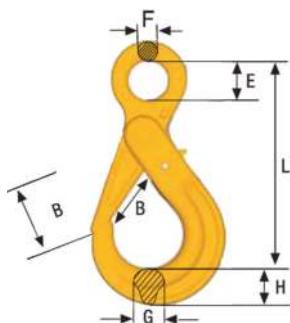


## Safety Hook with Griplatch OBK

Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			A	L	B	E	F	G	H	
Z100218	OBK-22-8	15.5	30	335	87	70	24	40	58	10.2

Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

4:1 Design Factor

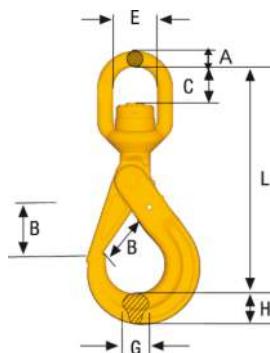


## Safety Hook BK

Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	E	F	G	H		
Z101357	BK-32-8	32.8	400	120	90	30	62	86		23.8

Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

4:1 Design Factor



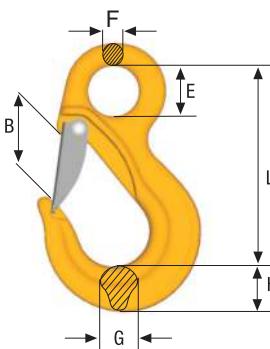
## Swivel Safety Hook BKLK

Safety hook with ball-bearing for 360° rotation under full load.

Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	C	E	A	G	H	
Z101344	BKLK-32-8	32.8	533	120	110	102	45	62	86	32.3

Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

4:1 Design Factor



## Sling Hook EK (without latch) and EKN (with latch)

Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			L	B	E	F	G	H		
Z100720	EK-32-8	32.8	333	105	76	38	61	80		17.7
Z100725	EKN-32-8	32.8	333	93	76	38	61	80		17.9

Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

4:1 Design Factor

# Universal weld-on hook, UKN

## The original excavator hook

Excavators are often used for material handling and lifting because they are available on most construction sites. However, rigging gear is often incorrectly attached, either to the teeth of the bucket or directly on the excavator arm, which is a dangerous practice that can lead to accidents.

The Gunnebo Industries UKN Hook was developed in 1975 – a solution that transformed the excavator into a lifting crane. The UKN Hook has been fitted to excavators and other applications for almost 50 years, either as an aftermarket product or directly by the manufacturer.

Today the UKN is the hook of choice for leading international excavator manufacturers.

### Quality

- Forged alloy steel.
- Hardened and tempered.

### 100% proof-loaded

- Every hook is individually proof-loaded at 3 x WLL.

### High durability

- Forged.
- Rated with a 5:1 safety factor.

### Clear markings

- Country of origin.
- Traceability code.
- Model and size.



### Prepared for welding

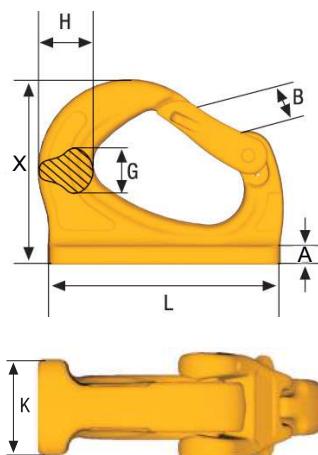
- Base plate prepared for welding.

### Heavy duty latch

- Latch with handles for easy opening.
- Hardened and tempered.

### Pin & spring

- Spring protection.
- Hardened and tempered hinge pin.
- Stainless steel spring.



### Universal Weld-On Hook - UKN

Stock No.	Code	WLL metric tonnes**	Dimensions (mm)							Weight (kg)
			B	G	H	K	L	A	X	
Z1002560	UKN-0.75*	0.75	20	13	20	19	81.5	5	56	0.2
Z6511810	UKN-1*	1.0	27	17	25	25	95	6	72	0.6
Z7009060	UKN-2*	2.0	33	20	30	30	114	8	86	0.9
Z6455730	UKN-3	3.0	30	23	32	35	132	10	105	1.3
Z6521160	UKN-4	4.0	30	29	38	42	140	11	114	2.0
Z6455800	UKN-5	5.0	34	30	47	45	165	12	131	3.2
Z6515390	UKN-8	8.0	34	40	51	50	172	13	133	3.6
Z6456030	UKN-10	10.0	47	43	58	55	220	14	170	8.2
Z1007850	UKN-15	15.0	55	50	67	60	240	15	188	9.8
Z1007851	UKN-20	20.0	65	60	85	60	275	15	207	12.4

\* Welding plate slightly curved

\*\* Design factor 5:1

Fulfils requirements in: EN 474-1.

## Spare Part RD BK

(with assembly kit)

Set for BK/BKG Safety hooks consisting of trigger, stainless steel spring, retaining pin and assembly kit.



### Recessed trigger

Stock No.	Code	Weight (kg)
Z100282	RDBK-6	0.02
Z100283	RDBK-8	0.03
Z100284	RDBK-10	0.03
Z100285	RDBK-13	0.05
Z100286	RDBK-16	0.10
Z100297	RDBK-18/20	0.21
Z100287	RDBK-22	0.20
Z100280	RDBK-26	0.50
Z100294	RDBK-32	0.70

### Standard trigger (long trigger)

Stock No.	Code	Weight (kg)
Z1002820	RDBK-6	0.01
Z1002830	RDBK-7/8	0.03
Z1002840	RDBK-10	0.03
Z1002850	RDBK-13	0.05
Z1002860	RDBK-16	0.12

## Spare Part RD OBK/GBK

(with assembly kit)

Set for OBK/GBK Safety hooks consisting of trigger, stainless steel spring, retaining pin and assembly kit.

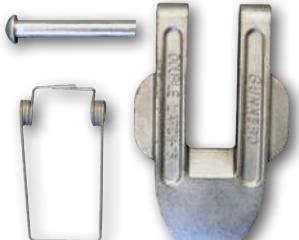


Stock No.	Code	Weight (kg)
Z100281	RDOBK-6	0.02
Z100288	RDOBK-7/8	0.03
Z100289	RDOBK-10	0.03
Z100290	RDOBK-13	0.05
Z100291	RDOBK-16	0.08
Z100297	RDBK-18/20	0.21
Z100323	RDBK-22	0.35

## Spare Part RD BKD/BKLKD

(with assembly kit)

Set for BKD/BKLKD Safety hooks consisting of trigger, stainless steel spring, retaining pin and assembly kit.



Stock No.	Code	Weight (kg)
Z101157	RDBKD-13 double latch	0.22
Z101158	RDBKD-16 double latch	0.42
Z101159	RDBKD-18/20 double latch	0.47

## Spare Part RD GKN/OKN

Set for GKN/OKN Safety hooks consisting of trigger, stainless steel spring, retaining pin and assembly kit.



Stock No.	Code	Weight (kg)
Z622175	RDGKN/OKN-7/8-8	0.05
Z622183	RDGKN/OKN-10-8	0.09
Z622206	RDGKN/OKN-13-8	0.13
Z622214	RDGKN-16-8	0.22



## Spare Part RD LKNG

Stock No.	Code	Weight (kg)
Z700495	RDLKNG-16 Bolt and Nut	0.7
B60122	RDLKNG-16 Bronze Washer and Retaining pin	0.03



## Spare Part LKN / LKNK / EKN / OKN / EGKN / RH / ESKN

Set consisting of latch, stainless steel spring, and rivet.

Stock No.	Code	Weight (kg)
Z100445	RDEKN- 6 / OKN / RH 1	0.03
Z100447	RDEKN- 7/8 /LKN / RH 2	0.05
Z100450	RDEKN-10 / LKN / RH 3	0.06
Z100449	RDEKN-13 / LKN / RH 5	0.13
Z100217	RDEKN-16 / LKN	0.20
Z100453	RDEKN-18/20	0.26
Z100452	RDEKN-22	0.42
Z100742	RDEKN-26	0.53
Z100743	RDEKN-32	0.60



## Spare Part Set SKN, OKN and LKN (old version)

Set consisting of latch, stainless steel spring, and rivet.

Stock No.	Code	Weight (kg)
Z420581	RDSKN/LKN-7/8-8	0.05
Z420688	RDSKN/LKN-10-8	0.10
Z420785	RDSKN/LKN-13-8	0.14
Z420989	RDSKN/OKN-16-8	0.22
Z421087	RDSKN/OKN-18/20-8	0.27
Z700698	RDOKN-22-8	0.48



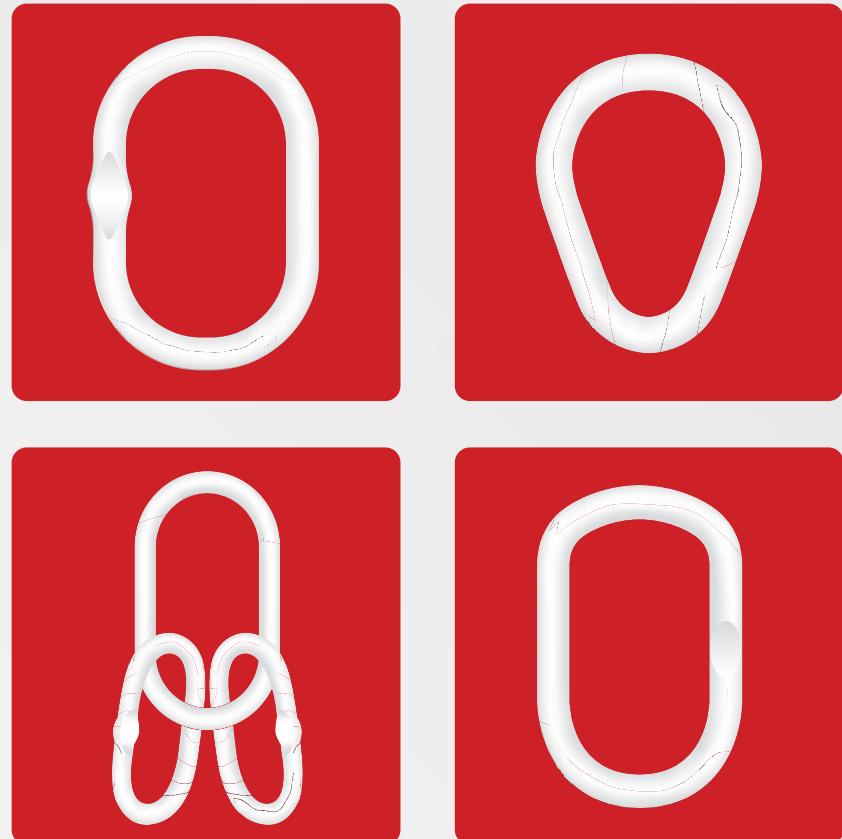
## Spare Part UKN

Spare part set RDUKN (msp) consisting of forged latch, pin, stainless steel spring, and retaining pin.

Stock No.	Code	Weight (kg)
Z100258	RDUKN-0.75	0.06
Z700264	RDUKN-1	0.12
Z700958	RDUKN-2	0.20
Z700266	RDUKN-3/4	0.20
Z700268	RDUKN-5/8	0.36
Z700269	RDUKN-10	0.88
Z700984	RDUKN-15/20	1.20

# MASTER LINKS

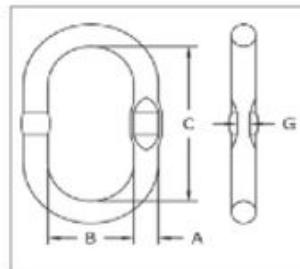
The Crosby Group offers a wide range of links, from small 0.8 tonne capacities all the way up to 179 tonnes, as well as application-specific links, such as the hot-dip galvanized master links for use in highly corrosive environments.



A-1343



- Alloy steel — Quenched & Tempered.
- Individually Proof Tested to values shown, with certification.
- Design Factor of 5 to 1.
- Proof Tested with 70% inside width special fixtures sized to prevent localized point loading per EN 1677-4, reference applications & warnings.
- Each main link is marked with Product Identification Code (PIC) for material traceability, Grade, CE, chain size and the "CG" (Crosby Group).
- A-1343 master links are type approved to DNV Certification. Notes 2.7-1- Offshore Containers. These Crosby master links are 100% proof tested. Every batch is impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Engineered Flat for use with S-1325A coupler link.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



### Grade 100 A-1343 Welded Master Link

Stock No.	Weight Each (kg)	Grade 100 Chain Sling		Grade 80 Chain Sling		WLL (t)	Proof Load (t)	Dimensions (mm)				Engineered Flat Size for S-1325A (mm)
		Single Leg Chain Size (mm)	Double Leg Chain Size (mm)	Single Leg Chain Size (mm)	Double Leg Chain Size (mm)			A	B	C	G	
1247051	0.4	6, 7	6, 7	6, 7, 8	6, 7, 8	3.2	8.0	13	60	120	6.5	6, 7, 8
1247087	0.84	8, 10	8	8, 10	8	4.1	10.2	17	90	160	8.5	10
1247096	1.1	10, 13	10	10, 13	10	6.7	16.7	19	90	160	8.5	10, 13
1247122	2.3	10, 13	10	10, 13	10	7.0	17.5	22	145	275	10.5	13
1247120	1.6	13	10	13, 16	13	8.8	22.0	22	100	180	10.5	13
1247126	3	13	-	13, 16	13	8.9	22.2	25	145	275	13.5	16
1247124	2.4	13, 16	13	16	16	11.5	28.7	25	115	210	13.5	16
1247133	3.9	13, 16	13	16	16	13.0	32.5	28	145	275	13.5	16
1247142	4.8	16	16	19, 20	19, 20	17.0	42.5	32	145	275	16.7	-
1247151	6.9	20	20	20, 22	20, 22	24.0	60.0	36	155	285	-	-
1247163	7.3	22, 23	22, 23	23, 26	23, 26	31.5	78.7	40	140	270	-	-
1247164	12.9	26	26	26	26	38.3	95.7	45	180	340	-	-
1247166	19.1	26	26	32	32	45.0	112.5	51	215	390	-	-
1247175	25.1	32	32	32	32	67.0	167.5	55	203	406	-	-

5:1 Design Factor. Applications with wire rope and synthetic sling generally require a Design Factor of 5. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120 degrees. Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9. Chain slings require that the Design Factor be 4:1. Refer to Applications & Warnings to determine product's actual Ultimate Load. There are no manufactured flats on links over 1 1/4" (32mm).

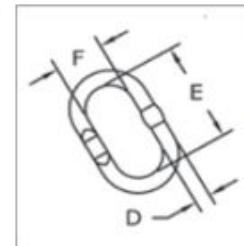
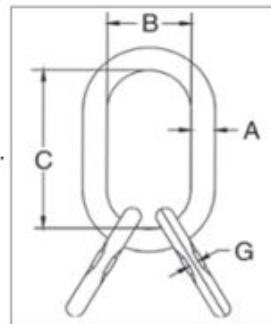
Fatigue Rated™ Crosby 8/10™ CE QT

APPLICATION AND WARNING INFORMATION SECTION 17

## A-1346



- Alloy steel — Quenched & Tempered.
- Individually Proof Tested to values shown, with certification.
- Design Factor of 5 to 1.
- Proof Tested with 70% inside width special fixtures sized to prevent localized point loading per EN 1677-4, reference Applications & Warnings.
- Each main link is marked with Product Identification Code (PIC) for material traceability, Grade, CE, chain size and the "CG" (Crosby Group). Each sublink is marked with traceability code.
- A-1346 master links are type approved to DNV Certification. Notes 2.7-1-Offshore Containers. These Crosby master links are 100% proof tested. Every batch is impacted tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Engineered Flat for use with S-1325A coupler link.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



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## Grade 100 A-1346 Welded Master Link Assembly

Stock No.	Weight Each (kg)	Grade 100 Chain Sling Three / Four Legs Chain Size (mm)	Grade 80 Chain Sling Three / Four Legs Chain Size (mm)	WLL (t)	Proof Load (t)	Dimensions (mm)							Engineered Flat Size for S-1325A Chain Size (mm)
						A	B	C	D	E	F	G	
1256865	1.1	6	6	3.2	8.0	13	60	120	13	120	60	6.5	6
1256868	1.6	6	6, 7	4.1	10.2	17	90	160	13	120	60	6.5	6, 7
1256874	1.8	6, 7	7	4.2	10.6	19	90	160	13	120	60	6.5	7, 8
1256878	3.3	8	10	7.0	17.5	22	100	180	17	160	90	8.5	10
1256880	4.1	8	10	7.0	17.5	22	145	275	17	160	90	8.5	10
1256876	3.8	10	10	8.5	21.2	22	100	180	19	160	90	8.5	10
1256882	4.6	10	10	8.9	22.2	25	115	210	19	160	90	8.5	10
1256892	5.2	10	10	8.9	22.2	25	145	275	19	160	90	8.5	10
1256917	7.1	13	13	14.5	36.2	28	145	275	22	180	100	10.5	13
1256926	9.6	13	16	17.0	42.5	32	145	275	25	210	115	13.5	16
1256929	12.7	16	16	23.6	59.0	36	155	285	28	190	110	13.5	16
1256930	18.4	16	19, 20	28.1	70.3	40	140	270	32	275	145	16.7	-
1256953	26.6	19, 20	22	38.3	95.7	45	180	340	36	285	155	-	-
1256958	35.5	22, 23	26	45.0	112.5	51	215	390	40	270	140	-	-
1256973	61.1	26	32	67.0	167.5	55	203	406	51	390	215	-	-

5:1 Design Factor. Applications with wire rope and synthetic sling generally require a Design Factor of 5. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120 degrees. Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9. Chain slings require that the Design Factor be 4:1. Refer to applications & warnings to determine product's actual Ultimate Load. There are no manufactured flats on links over 1 1/4" (32mm).

Fatigue Rated™ Crosby 8/10™ CE OT

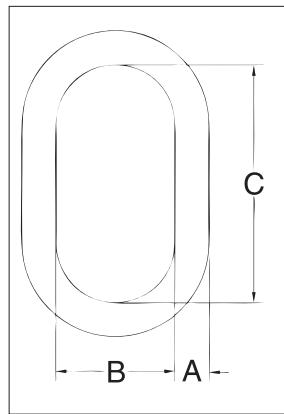
APPLICATION AND WARNING INFORMATION SECTION 17

### A-342



Ratings below are for use with chain slings fabricated in accordance with ASME B30.9. For other applications, see Applications & Warnings.

- Alloy steel — Quenched & Tempered.
  - Individually Proof Tested to values shown, with certification.
  - Proof Tested with special fixtures sized to prevent localized point loading.
  - Forgings have a Product Identification Code (PIC) for material traceability, along with the size, the name Crosby and USA in raised lettering.
  - Selected sizes designated with "W" in the size column have enlarged inside dimensions to allow additional room for sling hardware and crane hook.
  - Crosby 7/8" to 2" A-342 master links are type approved to DNV-ST-E271-2.7-1 Offshore Containers. These Crosby master links are 100% proof tested, MPI and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request. Refer to the Crosby COLD TUFF® master links that meet the additional requirements of DNV rules for certification of lifting appliances - Loose Gear.
  - Incorporates patented QUIC-CHECK® deformation indicators.
  - Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
  - Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements.
- Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



### A-342 Alloy Master Links

Size			Stock No.	Weight Each (kg)	Working Load Limit (t)	Proof Load (kN)	Grade 100 Chain Sling		Grade 80 Chain Sling		Dimensions (mm)			
(in)	(mm)	OC					Single Leg Chain Size (mm)	Double Leg Chain Size (mm)	Single Leg Chain Size (mm)	Double Leg Chain Size (mm)	A	B	C	Deformation Indicator
1/2W	13W	No	1014266	0.59	3.40	77	6, 7, 8	6mm	6mm, 9/32, 5/16, 3/8	6mm, 9/32	13	71.1	127	89
5/8	16	No	1014280	0.69	4.00	80	8, 10	9/32	3/8	5/16	16	76.2	152	89
3/4W	19W	No	1014285	0.91	5.60	126	8, 10	5/16	1/2	3/8	19	81.3	152	102
7/8W	22W	Yes	3522213	1.50	6.90	†169	10, 13	3/8	1/2	3/8	22	95.3	162	114
1W	26W	Yes	3522214	2.77	11.8	†289	13, 16	1/2	5/8	1/2	26	109	191	140
1-1/4W	32W	Yes	3522215	5.44	17.7	†435	16, 20	5/8	3/4, 7/8	5/8	32	140	241	178
1-1/2W	38W	Yes	3522216	8.44	27.7	†680	22, 26	3/4	1	3/4, 7/8	38	150	267	191
1-3/4	44	Yes	3522217	11.4	38.5	†944	26	7/8	1-1/4	1	44	152	305	191
2	51	Yes	3522218	16.8	46.5	†1141	32	7/8	1-1/4	1	51	178	356	229
2-1/4	57	No	1014422	24.5	64.9	1287	32	1	1-1/4	1-1/4	57	203	406	254
2-1/2	63	No	1014468	31.1	72.6	1423	1-1/4	1-1/4	-	-	63	213	406	279
2-3/4	70	No	1014440	42.6	98.4	1930	-	-	-	-	70	251	457	318
3	76	No	1014486	52.0	103	2029	-	-	-	-	76	251	457	330
3-1/4	83	No	1014501	66.0	119	2332	-	-	-	-	83	254	508	343
3-1/2	89	No	1014529	91.0	126	2483	-	-	-	-	89	305	610	394
3-3/4	95	No	1015051	90.0	152	2990	-	-	-	-	95	254	508	343
4	102	No	1015060	120	169	3319	-	-	-	-	102	305	610	406
†† 4-1/4	†† 108	No	1015067	137	160	3150	-	-	-	-	108	305	610	-
†† 4-1/2	†† 114	No	1015079	156	163	3202	-	-	-	-	114	356	711	-
†† 4-3/4	†† 121	No	1015088	198	176	778,000	-	-	-	-	121	356	711	-
†† 5	†† 127	No	1015094	234	179	790,000	-	-	-	-	127	381	762	-

5:1 Design Factor. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120 degrees. Applications with wire rope and synthetic sling generally require a design factor of 5. Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9. †Offshore Container Master Links Proof Tested to 2.5 times the Working Load Limit with 70 percent fixtures. ††Welded Master Link. Chain slings require that the Minimum Ultimate Load be 4 times the Working Load Limit. Refer to applications & warnings to determine products actual Ultimate Load. Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9-1.4 for the chain size and number of legs.

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Crosby 8/10™

QUIC-CHECK®

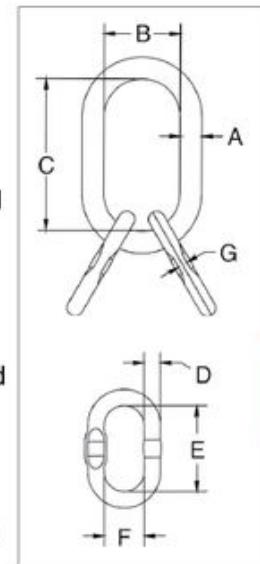
APPLICATION AND WARNING INFORMATION SECTION 17

## A-345



- Alloy steel — Quenched & Tempered.
- Individually Proof Tested to values shown, with certification.
- Design Factor of 5 to 1
- Proof Tested with 60% inside width special fixtures sized to prevent localized point loading per ASME A-952.
- Each main link is marked with Product Identification Code (PIC) for material traceability, Grade, CE, chain size and the "CG" (Crosby Group). Each sublink is marked with traceability code.
- 22mm - 51mm A-345 master links are type approved to DNV Certification Notes 2.7-1- Offshore Containers. These Crosby master links are 100% proof tested, MPI and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Engineered Flat for use with S-1325A coupler link.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements.

Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



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## A-345 Master Link Assembly with Engineered Flat

Size			OC	Stock No.	Weight Each (kg)	Working Load Limit (t)	For Grade 100 Chain Size (mm)	For Grade 80 Chain Size (mm)	Proof Load (kN)	Dimensions (mm)							Deformation Indicator	Engineered Flat for S-1325
(in)	(mm)									A	B	C	D	E	F	G		
3/4W	19W	No	3685119	1.8	5.6	6, 7, 8	6, 7, 8	†137.3	19	82	152	13	120	60	6.2	102	6 - 8	
7/8W	22W	Yes	3014742	3.2	6.9	8	10	†171.7	22	95	162	17	170	80	8.5	114	6 - 8	
1W	26W	Yes	3014766	5.8	11.8	10	13	†289.4	28	109	191	22	160	95	10.6	140	10	
1-1/4W	32W	Yes	3014779	12.1	17.7	13	16	†434.1	34	140	241	28	240	130	-	178	-	
1-1/2W	38W	Yes	3014807	18.3	27.7	16	19	†679.3	41	150	267	32	270	130	-	191	-	
1-3/4W	44	Yes	3014814	23.5	38.5	20	22	†944.2	44	152	305	36	270	125	-	191	-	
2	51	Yes	3014832	33.5	46.5	22	26	†1140.4	51	178	356	40	270	140	-	229	-	
2-1/2	64	No	3014855	62.2	72.6	26	32	†1780.5	64	213	406	50	308	190	-	279	-	
2-3/4	70	No	3014864	84.5	98.4	32	32	†2413.3	70	251	457	55	355	200	-	318	-	
3-1/4	83	No	1014986	116	106.5	32	-	2611.9	83	254	508	63	286	203	-	343	-	
4	102	No	1014999	303	169	-	-	4144.7	102	306	610	89	610	305	-	394	-	

5:1 Design Factor. The maximum individual sublink working load limit is 75% of the assembly working load limit. Sublink for 3.25" and 4" is 61% of the assembly working load limit. Applications with wire rope and synthetic sling generally require a design factor of 5. Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9. Chain slings require that the Minimum Ultimate Load be 4 times the Working Load Limit. Refer to applications & warnings to determine products actual Ultimate Load. Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9-1.4 for the chain size and number of legs. †Proof Tested to 2.5 times the Working Load Limit with 70 percent fixtures.

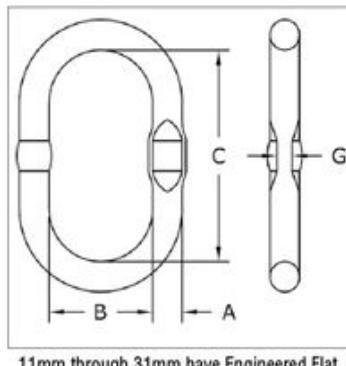
Fatigue Tested® Crosby 8/10™ QUIC-CLICK® QT

APPLICATION AND WARNING INFORMATION SECTION 17

## A-344



- Alloy steel — Quenched & Tempered.
- Individually Proof Tested to values shown, with certification.
- Design Factor of 5 to 1.
- Proof Tested with 70% inside width special fixtures sized to prevent localized point loading per EN1677.
- Each main link is marked with Product Identification Code (PIC) for material traceability, Grade, CE, chain size and the "CG" (Crosby Group).
- A-344 master links are type approved to DNV Certification Notes 2.7-1- Offshore Containers. These Crosby master links are 100% proof tested. Every batch is impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Engineered Flat for use with S-1325A coupler link.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- 13mm through 32mm have Engineered Flat.



11mm through 31mm have Engineered Flat.

## Grade 80 A-344 Welded Master Links available with Engineered Flat

Stock No.	Weight Each (kg)	Grade 100 Chain Sling		Grade 80 Chain Sling		WLL (t)	Proof Load (t)	Dimensions (mm)				Engineered Flat Size for S-1325A (mm)
		Single Leg Chain Size (mm)	Double Leg Chain Size (mm)	Single Leg Chain Size (mm)	Double Leg Chain Size (mm)			A	B	C	G	
1256988	0.36	6, 7	6, 7	6, 7, 8	6, 7, 8	3.2	8.0	13	60	120	6.5	6, 7, 8
1257002	0.84	8, 10	8	8, 10	8	4.1	10.2	17	90	160	8.5	10
1257072	1.06	10, 13	10	10, 13	10	6.7	16.7	19	90	160	8.5	10, 13
1257268	2.34	10, 13	10	10, 13	10	7.0	17.5	22	145	275	10.5	13
1257212	1.63	13	10	13, 16	13	8.8	22.0	22	100	180	10.5	13
1257332	3.04	13		13, 16	13	8.9	22.2	25	145	275	13.5	16
1257282	2.41	13, 16	13	16	16	11.5	28.7	25	115	210	13.5	16
1257382	3.86	13, 16	13	16	16	13.0	32.5	28	145	275	13.5	16
1257422	4.82	16	16	19, 20	19, 20	17.0	42.5	32	145	275	16.7	-
1257492	6.88	20	20	20, 22	20, 22	24.0	60.0	36	155	285	-	-
1257502	7.31	22, 23	22, 23	23, 26	23, 26	31.5	78.7	40	140	270	-	-
1257562	12.89	26	26	26	26	38.3	95.7	45	180	340	-	-
1257632	19.12	26	26	32	32	45.0	112.5	51	215	390	-	-
1257573	25.10	32	32	32	32	67.0	167.5	55	203	406	-	-
1257591	42.80	-	-	-	-	90	225	70	250	450	-	-
1257600	57.00	-	-	-	-	125	312.5	80	260	450	-	-

5:1 Design Factor. Applications with wire rope and synthetic sling generally require a Design Factor of 5. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120 degrees. Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9. Chain slings require that the Design Factor be 4:1. Refer to applications & warnings to determine product's actual Ultimate Load. There are no manufactured flats on links over 1 1/4" (32mm). Two largest sizes are available globally.

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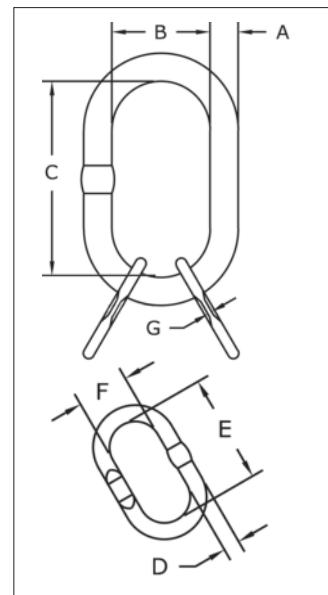
APPLICATION AND WARNING INFORMATION SECTION 17

## A-347



- Alloy steel — Quenched & Tempered.
- Individually Proof Tested to values shown, with certification.
- Design Factor of 5 to 1.
- Proof Tested with 70% inside width special fixtures sized to prevent localized point loading per EN1677.
- Each main link is marked with Product Identification Code (PIC) for material traceability, Grade, CE, chain size and the "CG" (Crosby Group). Each sublink is marked with traceability code.
- A-347 master links are type approved to DNV Certification Notes 2.7-1- Offshore Containers. These Crosby master links are 100% proof tested. Every batch is impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Engineered Flat for use with S-1325A coupler link.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Available only in EMEA.

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## Grade 80 A-347 Welded Master Link Assembly with Engineered Flat

Stock No.	Weight Each (kg)	Grade 100 Chain Sling Three / Four Legs Chain Size (mm)	Grade 80 Chain Sling Three / Four Legs Chain Size (mm)	WLL (t)	Proof Load (t)	Dimensions (mm)							Engineered Flat Size for S1325A Chain Size (mm)
						A	B	C	D	E	F	G	
1257755	1.1	6	6	3.2	8.0	13	60	120	13	120	60	6.5	6
1257762	1.6	6	6, 7	4.1	10.3	17	90	160	13	120	60	6.5	6, 7
1257832	1.8	6, 7	7	4.2	10.6	19	90	160	13	120	60	6.5	7, 8
1258058	3.3	8	10	7.0	17.5	22	100	180	17	160	90	8.5	10
1258067	4.1	8	10	7.0	17.5	22	145	275	17	160	90	8.5	10
1258049	3.8	10	10	8.5	21.2	22	100	180	19	160	90	8.5	10
1258076	4.6	10	10	8.9	22.2	25	115	210	19	160	90	8.5	10
1258102	5.3	10	10	8.9	22.2	25	145	275	19	160	90	8.5	10
1258142	7.2	13	13	14.5	36.2	28	145	275	22	180	100	10.5	13
1258182	9.9	13	16	17.0	42.5	32	145	275	25	210	115	13.5	16
1258185	12.7	16	16	23.6	59.0	36	155	285	28	190	110	13.5	16
1258187	18.4	16	19, 20	28.1	70.2	40	140	270	32	275	145	16.7	-
1258402	26.7	19, 20	22	38.3	95.7	45	180	340	36	285	155	-	-
1258471	35.5	22, 23	26	45.0	112.5	51	215	390	40	270	140	-	-
1258491	61.1	26	32	67.0	167.5	55	203	406	51	390	215	-	-

5:1 Design Factor. Applications with wire rope and synthetic sling generally require a Design Factor of 5. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120 degrees. Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9. Chain slings require that the Design Factor be 4:1. Refer to applications & warnings to determine product's actual Ultimate Load. There are no manufactured flats on links over 1 1/4" (32mm).

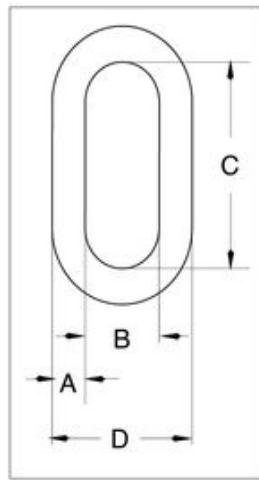
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APPLICATION AND WARNING INFORMATION SECTION 17

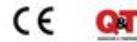
**G-340 / S-340**

- Forged carbon steel - Quenched & Tempered
- Self colored (S) or hot-dip galvanized (G).

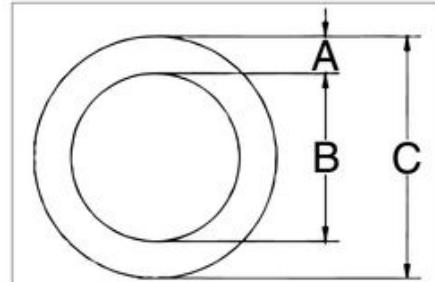
**G-340/S-340 Weldless End Links**

Size (A) (mm)	Stock No.		Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)			
	G-340 Galv.	S-340 S.C.			A	B	C	D
8	1014057	1014066	1.13	.07	8	12.7	44.5	30.0
10	1014075	1014084	1.72	.10	10	14.2	47.8	35.1
13	1014093	1014100	2.95	.22	13	19.1	60.5	46.0
16	1014119	1014128	4.22	.44	16	25.4	82.5	59.0
19	1014137	1014146	6.35	.68	19	28.7	89.0	68.0
22	1014155	1014164	5.44	1.17	22	51.0	130	95.5
25	1014173	1014182	6.89	1.79	25	57.0	146	108
32	1014191	1014208	11.97	3.31	32	63.5	178	127
35	1014217	1014226	13.61	4.71	35	70.0	197	140

5:1 Design Factor. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120°.

**S-643**

- Forged carbon steel - Quenched & Tempered.

**S-643 Weldless Rings**

Size (mm)	Stock No	Working Load Limit Single Pull (t)	Weight Each (kg)	Dimensions (mm)		
				A	B	C
22.2 x 102	1013780	3.27	1.23	22.2	102	146
22.2 x 140	1013806	2.54	1.57	22.2	140	184
25.4 x 102	1013824	4.90	1.67	25.4	102	152
28.6 x 152	1013842	4.72	2.99	28.6	152	210
31.8 x 127	1013860	7.71	3.09	31.8	127	191
34.9 x 152	1013888	8.62	4.59	34.9	152	222

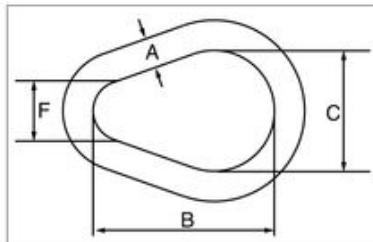
6:1 Design Factor.



A-341



- Alloy steel — Quenched & Tempered.
  - Individually Proof Tested at 2 times Working Load Limit with certification.
  - Sizes up to 51mm are forged.



## A-341 Alloy Pear Shaped Links



QUIC-CHECK  
Q

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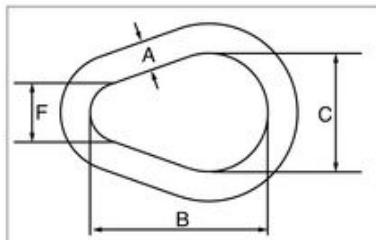
Size (A) (mm)	Stock No.	Working Load Limit		Weight Each (kg)	Dimensions (mm)		
		(t)	(lb)		B	C	F
13	1013575	3.15	7000	.25	76.2	50.8	25.4
16	1013584	4.09	9000	.50	95.3	63.5	31.8
19	1013595	5.59	12300	.80	114	76.2	38.1
22	1013604	6.81	15000	1.28	133	88.9	44.5
25	1013613	11.0	24360	1.91	152	102	51.0
28	1013622	13.9	30600	2.83	171	114	57.0
32	1013631	16.4	36000	3.74	191	127	63.5
35	1013640	19.5	43000	5.10	210	140	70.0
38	1013654	24.7	54300	6.46	229	152	76.0
44	1013672	38.6	84900	10.2	267	178	89.0
51	1013690	46.6	102600	15.4	305	203	102
†† 64	1013703	66.9	147300	29.9	381	254	127
†† 70	1013712	98.6	216900	39.9	419	279	140
†† 76	1013721	103	228000	52	457	305	152
†† 102	1013748	169	373000	123	610	406	203

5:1 Design Factor. Based on single leg sling (In-line load), or resultant load on multiple legs with an included angle less than or equal to 120°. †† Welded Link.

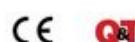
G-341 / S-341



- Forged carbon steel - Quenched & Tempered.
  - Self colored (S) or hot-dip galvanized (G).



## **G-341 / S-341 Weldless Sling Links**



QUIC-CHECK

Size (A) (mm)	Stock No.		Working Load Limit Single Pull (t)	Weight Each (kg)	Dimensions (mm)		
	G-341 Galv.	S-341 S.C.			B	C	F
10	1013897	1013904	.82	0.10	57.2	38.1	19.1
13	1013913	1013922	1.32	.25	76.2	50.8	25.4
16	1013931	1013940	1.91	.48	95.5	63.5	31.8
19	1013959	1013968	2.72	.85	114	76.2	38.1
22	1013977	1013986	3.76	1.25	133	88.9	44.5
25	1013995	1014002	4.90	1.97	152	102	51.0
32	1014011	1014020	7.60	3.45	197	127	63.5
35	1014039	1014048	9.30	5.13	210	140	70.0

**6.1 Design Factor.** Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120°.

# Identification of our Master Links

To provide good readability and traceability our master links have the following marking:

## Product type

- M - represents single type master link.
- MT - represents master link assembly.
- OS - is an abbreviation for offshore. All Arctic offshore master links are marked with OS and complies with DNV 2.7-1.

## Size designation

- The size is linked to the WLL as well as to compatible products, like attachment couplers and other components.
- Trade size.
- The size expressed in inch.

## Approved by BG/DGUV

- H32 – represents Gunnebo Industries' manufacturing ID. The ID also represents a 3rd part audit by BG in Germany.

## Traceability code

- The traceability code is unique for the production batch and normally consists of a letter and a number; for example A2. The traceability code makes it possible to trace and track the product through the whole production process back to the raw material used for the actual product.

## Gunnebo Sweden

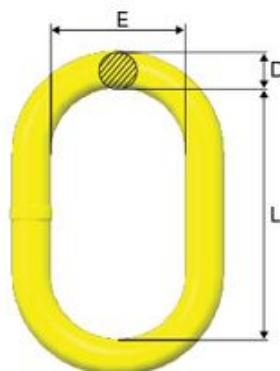
- To clearly highlight the Gunnebo Industries brand, our master links are marked with Gunnebo, Sweden.

## Meets the standards

- The markings fulfills the requirements of EN 1677-4, ASTM A952, AS 3775.2 and DNV 2.7-1.



## Master Link M



Stock No.	Code	WLL (t) 5:1		Dimensions (mm)			Weight (kg)
		EN 1677-4	A-952/A952M AS 3775.2-2014	L	E	D	
Z101271	M-6-10	1.5	1.5	100	60	11	0.2
Z100818	M-86-10	2.5	3.2	2.36	60	13	0.4
Z101273	M-108-10	4.0	5.2	140	80	17	0.8
Z101274	M-13-10	6.8	6.8	160	90	19	1.0
Z101267	M-1310-10	7.5	8.0	160	95	22	1.5
Z101268	M-1613-10	10.0	13.6	190	110	28	2.8
Z101247	M-19-10	12.0	16.0	200	120	30	3.5
Z101269	M-2016-10	17.0	20.6	240	140	34	5.2
Z101270	M-2220-10	25.0	30.9	250	150	40	7.3
Z101275	M-2622-10	28.0	32.0	250	150	42	8.7
Z101284	M-32-10	33.0	38.6	340	180	45	12.9
Z101276	M-3226-10	43.0	46.6	300	200	50	14.8
Z101277	M-3632-10	56.0	65.0	350	200	55	20.7
Z101278	M-4536-10	70.0	72.7	375	210	60	26.4
Z101279	M-90T-10	90.0	100.0	450	250	70	42.8
Z101280	M-125T-10*	125.0	125.0	450	260	80	57.0

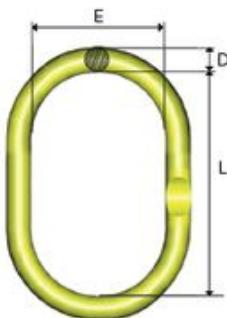
\* Dimension L and E not acc. to EN 1677-4.

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M, AS 3775:2014.

5:1 Design Factor

## Master Link MF with engineered flat

For 1-, 2-, 3- and 4-leg slings. Designed for use with CL, CLD, CG and CGD. 3- and 4 leg chain slings require CLD / CGD.



Stock No.	Code	WLL (t) 5:1		For chain size (mm)			Dimensions (mm)			Weight (kg)
		EN 1677-4	A-952/A952M AS 3775.2-2014	1-leg	2-leg	3-4 leg	L	E	D	
B14487	MF-6-10	1.5	1.5	6	-	-	100	60	11	0.2
B14489	MF-8-10	2.5	3.2	6, 8	6	-	120	60	13	0.4
B14482	MF-108-10	4.0	5.2	10	8	6	140	80	17	0.8
B14483	MF-1310-10	7.5	8.0	13	10	8	160	95	22	1.5
B14484	MF-1613-10	10.0	13.6	16	13	10	190	110	28	2.8
B14485	MF-2016-10	17.0	20.6	20	16	13	240	140	34	5.2
B14486	MF-2220-10	25.0	30.9	22	20	16	250	150	40	7.3

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M, AS 3775:2014.

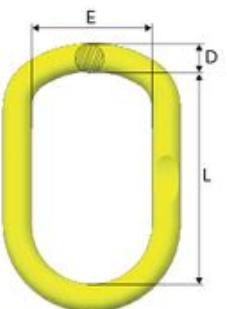
5:1 Design Factor

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## Master Link MFH with engineered flat

Designed for crane hooks, DIN 15401 and 15402. Designed for use with CL, CLD, CG and CGD.

3- and 4-leg chain slings require CLD / CGD.



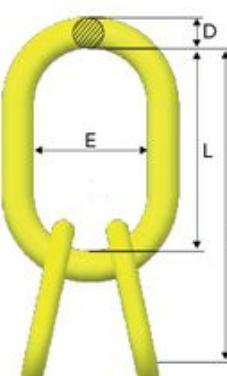
Stock No.	Code	WLL (t) 5:1		For chain size (mm)			Dimensions (mm)			DIN15401	DIN15402	Weight (kg)
		EN 1677-4	A-952/A952M AS 3775.2-2014	1-leg	2-leg	3-4 leg	L	E	D			
Z101262	MFH-1310-10	7.5	8.0	13	10	8	230	125	22	≤ 12	≤ 16	2.1
Z101263	MFH-1613-10	10.0	13.6	16	13	10	250	135	28	≤ 12	≤ 16	3.7
Z101264	MFH-2016-10	17.0	20.6	20	16	13	280	135	32	≤ 16	≤ 20	5.3
Z101265	MFH-2220-10	28.0	30.9	26	20	16	320	175	40	≤ 25	≤ 32	9.7
Z101266	MFHW-2220-10	28.0	28.0	26	20	16	355	225	40	≤ 50	≤ 63	11.1

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M, AS 3775:2014.

5:1 Design Factor

## Master Link with Sublinks MT

Designed for use with chain or wire rope. For 3- and 4-leg slings

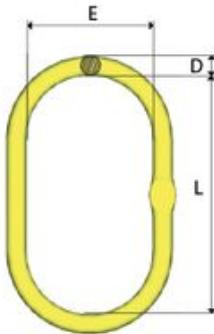


Stock No.	Code	WLL (t) 5:1		Dimensions (mm)							Weight (kg)
		EN 1677-4	A-952/A952M AS 3775.2-2014	L1	L	E	D	I	e	d	
Z100091	MT-6-10	3.5	5.0	285	160	90	19	120	60	13	2.0
Z100903	MT-8-10	5.2	8.0	300	160	95	22	140	80	17	3.0
Z101359	MT-9-10	6.9	9.7	340	190	110	28	160	90	19	5.1
Z100904	MT-10-10	11.5	16.0	360	200	120	30	160	95	22	6.4
Z100905	MT-13-10	17.0	26.0	440	250	150	40	190	110	28	14.2
Z100906	MT-16-10	28.0	35.0	500	300	200	50	200	120	32	23
Z101074	MT-20-10	35.0	50.0	550	300	200	55	250	150	40	31.5
Z101281	MT-22-10	53.0	75.0	610	350	200	60	260	140	45	46
Z101282	MT-26-10	70.0	100.0	730	450	250	70	280	160	50	71
Z101283	MT-32-10	90.0	125.0	730	450	260	80	280	160	55	91

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M, AS 3775:2014.

Engineered flat on the sublinks for sizes up to MT-16-10 except MT-9-10.

5:1 Design Factor



## Master Link MFX with engineered flat

Oversized, for 1- and 2-leg slings. Designed for use with CL, CLD, CG and CGD.

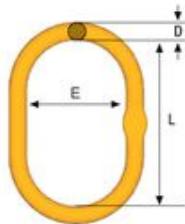
Stock No.	Code	WLL (t) 5:1		For chain size (mm)		Dimensions (mm)			Weight (kg)
		EN 1677-4	A-952/A952M AS 3775.2-2014	1-leg	2-leg	L	E	D	
Z100550	MFX-108-10	4.25	5.2	8, 10	8	340	180	25	3.7
Z100551	MFX-1310-10	7.5	8.0	13	10	340	180	28	4.7
Z100552	MFX-1613-10	11.2	13.6	16	13	340	180	34	7.1
Z101125	MFX-2016-10	16.0	20.6	20	16	340	180	40	9.6

Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M-02, AS 3775:2014.

5:1 Design Factor

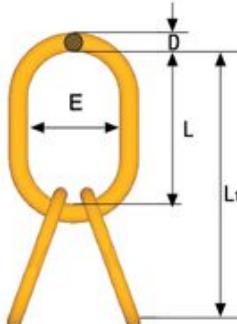
## Master Link MF with engineered flat

Classic yellow paint.



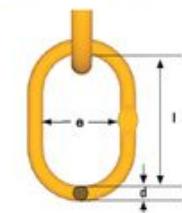
Stock No.	Code	WLL (t)		Dimensions (mm)				Weight (kg)
		EN1677-4	A-952/A952M	L	E	D		
Z100817	MF-86-10	2.5	3.2	120	60	13		0.4
Z100861	MF-108-10	4.0	5.2	140	80	17		0.8
Z100862	MF-1310-10	7.5	8.0	160	95	22		1.5
Z100863	MF-1613-10	10.0	13.6	190	110	28		2.5
Z100864	MF-2016-10	17.0	20.6	240	140	34		5.2
Z100865	MF-2220-10	25.0	30.9	250	150	40		7.3

5:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.



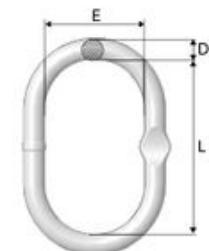
## Master Link with Sub Links MT

Engineered flat on the sublinks. Classic yellow paint.



Stock No.	Code	WLL (t)		Dimensions (mm)							Weight (kg)
		EN1677-4	A-952/A952M	L1	L	E	D	I	e	d	
Z100819	MT-6-10	3.5	5.0	270	150	90	19	120	60	13	1.8
Z100889	MT-8-10	5.2	8.0	300	160	95	22	140	80	17	3.0
Z100890	MT-10-10	11.5	16.0	360	200	120	30	160	95	22	6.4
Z100891	MT-13-10	17.0	26.0	440	250	150	40	190	110	28	14.2
Z100892	MT-16-10	28.0	35.0	500	300	200	50	200	120	32	23

5:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M.



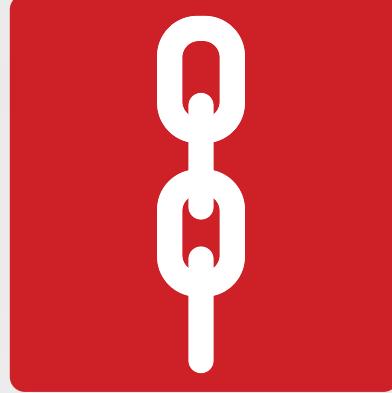
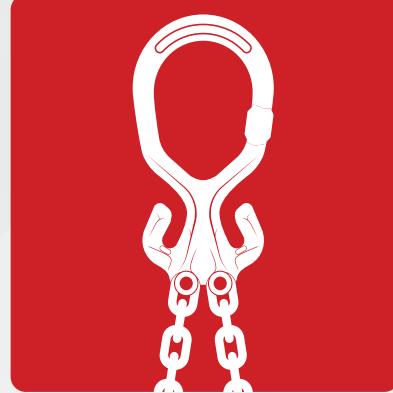
## Master Link MF HDG with engineered flat

Stock No.	Code	WLL (t)		Z100902			Weight (kg)
		EN1677-4	A-952/A952M	L	E	D	
BG14489	MF-86-8 HDG	2.0	2.5	120	60	13	0.5
BG14482	MF-108-8 HDG	3.2	4.0	140	80	17	0.8
BG14483	MF-1310-8 HDG	5.4	6.8	160	95	22	1.5
BG14484	MF-1613-8 HDG	8.2	10.3	190	110	28	2.8

5:1 Design Factor.

# CHAIN & ACCESSORIES

Innovative solutions for quicker, safer and easier lifting operations.



theCrosby group®

[thecrosbygroup.com](http://thecrosbygroup.com)

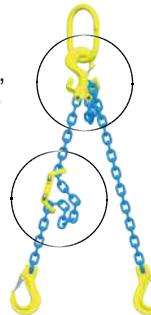
# GrabiQ: Components with multiple functions

Innovative designs that combine several clever functions in one component



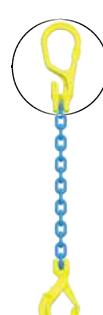
## Midgrab, MIG

Instant mounting, positioning, shortening on any part of the chain.



## C-grab Duo, CGD

Built in shortening function.



## Master Grab, MG

- All-in-one compact top link.
- Every chain leg can instantly be altered.
- Using the built in shortening function, you can alter between a straight lift to a looped sling in a matter of seconds.

## Fewer components & lighter assembly

### GrabiQ™

4-leg sling with shortening function



- (1) Master link  
(2) C-grab Duos

**Total: 3 components**  
with GrabiQ system



- (1) Master link  
(2) Sub links  
(8) Berglok chain couplers  
(4) Grab hooks

**Total: 15 components**  
with traditional system

### GrabiQ™

2-leg sling with shortening function



- (1) Master Grab Duo

**Total: 1 component**  
with GrabiQ



- (1) Master link  
(4) Berglok chain couplers  
(2) Grab hooks

**Total: 7 components**  
with traditional system

## Less is more with FlexiLeg

Thanks to the unique features of our GrabiQ product range, we offer solutions that increase the flexibility in lifting operations even further. Our FlexiLeg solution allows you to have an instant leg change on site.

With one single master link in combination with five Flexi-legs, we offer a solution that replaces four complete traditional slings, a total of ten legs. In addition, FlexiLeg also gives you the opportunity to modify the chain sling to different lifting operations, whenever and wherever it is needed.

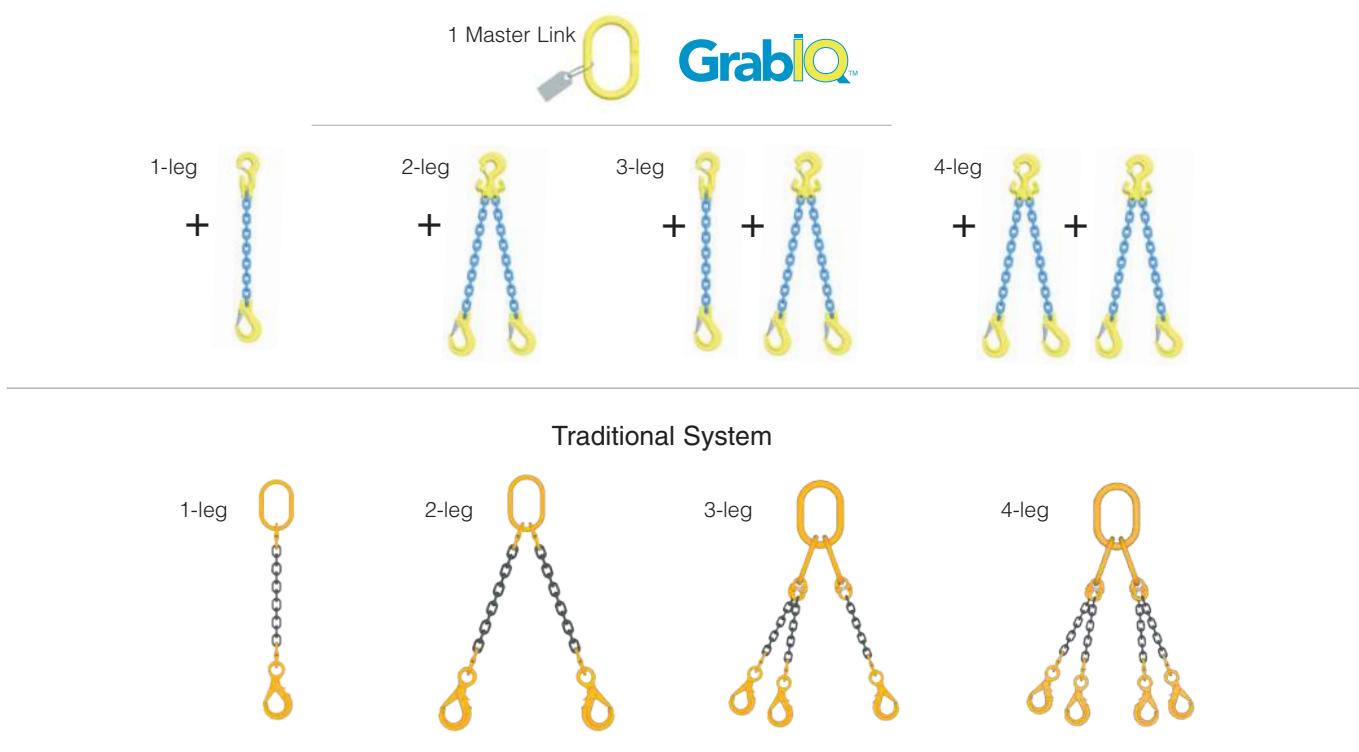
### The benefits of instant leg-change

- Enables the user to change slings, leg by leg.
- Makes the sling lighter and easier to work with.
- Sling legs that are not being used can easily be removed, thereby increasing safety at the work site.
- The quantity of sling material is greatly reduced, providing cost savings.
- The chain sling can be reconfigured on site, thus increasing efficiency.



GrabiQ FlexiLeg – a total of 5 legs replaces the total of 10 legs with the old traditional system.

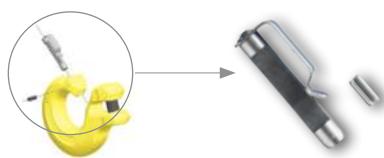
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### Related Products

#### QuickPin – For safe exchange of sling legs

- Fits all C-components (CL, CLD, CG, CGD)
- Instant close/open function, no tools needed
- Easy to retrofit
- Made of stainless steel for long product life span



#### FlexiTag – For every GrabiQ sling

- Specially designed for FlexiLeg
- Fits all other GrabiQ slings
- WLL and chain size pre-stamped for 1 – 4 legs
- Leg angle 30/45 degree shown in contour
- Made of stainless steel for use in all weather conditions



## GrabiQ – solutions for every need

### 1-leg chain slings

**MG1-GBK**

Consist of: Master Link MG, Chain KLA, Safety Hook GBK



Chain Size		WLL (t)	Total Components Length (mm)
(mm)	(in)		
6	-	1.5	171
8	5/16"	2.6	296
10	3/8"	4.0	361
13	1/2"	6.8	453
16	5/8"	10.3	527

4:1 Design Factor

**MG1-EGKN**

Type: Master Link MG, Chain KLA, Hook with Latch EGKN



Chain Size		WLL (t)	Total Components Length (mm)
(mm)	(in)		
6	-	1.5	231
8	5/16"	2.6	261
10	3/8"	4.0	331
13	1/2"	6.8	408
16	5/8"	10.3	481

4:1 Design Factor

**TG1-GBK**

Master Link MF, C-grab CG, Chain KLA, Safety Hook GBK



Chain Size		WLL (t)	Total Components Length (mm)
(mm)	(in)		
6	-	1.5	200
8	5/16"	2.6	346
10	3/8"	4.0	424
13	1/2"	6.8	504
16	5/8"	10.3	621

4:1 Design Factor

### 2-leg chain slings

**TG1-EGKN**

Consists of: Master Link MF, C-grab CG, Chain KLA, Hook with Latch EGKN



4:1 Design Factor

**MGD2-EGKN**

Consists of: Master Link MGD, Chain KLA, Latch Hook EGKN



4:1 Design Factor

**TG2-GBK**

Consists of: Master Link MF, C-grab Duo CGD, Chain KLA, Safety Hook GBK



4:1 Design Factor



4:1 Design Factor

**TG2-EGKN**

Consists of: Master Link MF, C-grab Duo CGD, Chain KLA, Latch Hook EGKN



4:1 Design Factor

**MGD2-CL**

Consists of: Master Link MGD, Chain KLA, C-lok CL



4:1 Design Factor

**Chain Size**
**WLL (t)**
**WLL choked (t)**
**Total Components Length (mm)**
**Chain Size**
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**Chain Size**
**WLL (t)**
**WLL choked (t)**
**Total Components Length (mm)**
**Chain Size**
**WLL (t)**
**WLL choked (t)**
**Total Components Length (mm)**

### 3-leg chain sling

**TG3-GBK**

Consists of: Master Link MF, C-grab CG, C-grab Duo CGD, Chain KLA, Safety Hook GBK



4:1 Design Factor

### 4-leg chain sling

**TG4-GBK**

Consists of: Master Link MF, C-grab Duo CGD, Chain KLA, Safety Hook GBK



4:1 Design Factor


**TG3-EGKN**

Consists of: Master link MF, C-grab CG, C-grab Duo CGD, Chain KLA, Latch Hook EGKN

Chain Size		WLL (t)		Total Components Length (mm)
(mm)	(in)	$\beta$ 0-45° $\alpha$ 0-90°	$\beta$ 45°-60° $\alpha$ 90°-120°	
6	-	3.1	2.2	311
8	5/16"	5.2	3.7	392
10	3/8"	8.4	6.0	474
13	1/2"	14.0	10.0	604
16	5/8"	21.0	15.0	680

4:1 Design Factor


**TG4-EGKN**

Consists of: Master link MF, C-grab Duo CGD, Chain KLA, Latch Hook EGKN

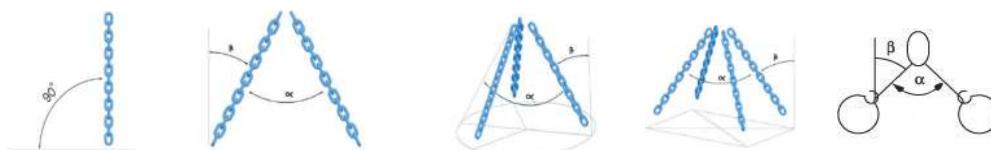
Chain Size		WLL (t)		Total Components Length (mm)
(mm)	(in)	$\beta$ 0-45° $\alpha$ 0-90°	$\beta$ 45°-60° $\alpha$ 90°-120°	
6	-	3.1	2.2	306
8	5/16"	5.2	3.7	357
10	3/8"	8.4	6.0	444
13	1/2"	14.0	10.0	559
16	5/8"	21.0	15.0	634

4:1 Design Factor

### Grade 10 chain slings

Working Load Limits in tonnes for chain slings grade 10

Based on EN 818-4:2008 WLL +25%



Sling type	1-leg	2-leg	3- and 4-leg	Choke Hitch			
Condition of use	Straight	$\beta$ 0-45° $\alpha$ 90°	$\beta$ 45-60° $\alpha$ 90-120°	$\beta$ 0-45° $\alpha$ 90°	$\beta$ 45-60° $\alpha$ 90-120°	Choke $\beta$ 0-45° $\alpha$ 90°	Choke $\beta$ 45-60° $\alpha$ 90-120°
Load factor	1	1.4	1	2.1	1.5	1.1	0.8
Chain size	6	1.50	2.10	3.10	2.20	1.60	1.20
	7	1.95	2.70	4.00	2.90	2.10	1.50
	8	2.60	3.70	5.50	3.90	2.80	2.10
	10	4.00	5.60	8.40	6.00	4.40	3.20
	13	6.80	9.60	14.40	10.20	7.40	5.40
	16	10.00	14.10	21.00	15.00	11.00	8.00
	20	16.00	22.50	33.60	24.00	17.60	12.80
	22	20.00	28.20	42.00	30.00	22.00	16.00
	26	27.00	38.20	57.20	40.90	29.70	21.60
	32	40.00	56.40	84.00	60.00	44.00	32.00

4:1 Design Factor. Working Load Limits are based on equally loaded and disposed sling legs.

APPLICATION AND WARNING INFORMATION  
SECTION 17

## Chain Tensioner GT – for lifting

One of the main benefits of using chain slings instead of other types of slings is the ability to shorten the chain to balance the load in asymmetrical lifts.

Gunnebo Industries offers a wide range of fittings for shortening, but most of these options only shorten in increments of one chain link. Certain applications require more precision when shortening, and for those the GT chain tensioner, approved for lifting purposes, is an excellent choice.

The Chain Tensioner GT is integral in one set. It is made of high-strength Grade 10 material, and the ratchet handle contributes to fast and ergonomic shortening. Our chain tensioner is designed to be compatible with the GrabiQ product range, enabling a wide range of fittings to be used for any type of application.

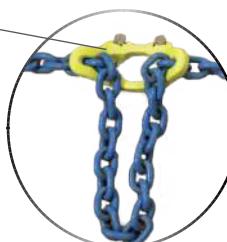


### Precise positioning

The GT tensioner offers stepless adjustment, allowing for precise positioning of the load.



Midgrab Shortener  
MIG



### Precision shortening

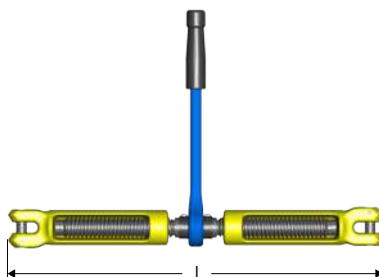
The GT tensioner offers 200mm of precision shortening. For shortening of longer increments, our unique Midgrab Shortener MIG is the ideal choice.

### Full capacity

As with all Gunnebo Industries' shorteners, there is no reduction in the capacity of the system when shortening.

### 100% proof loaded

Every unit is individually proof loaded to 2.5 x WLL.



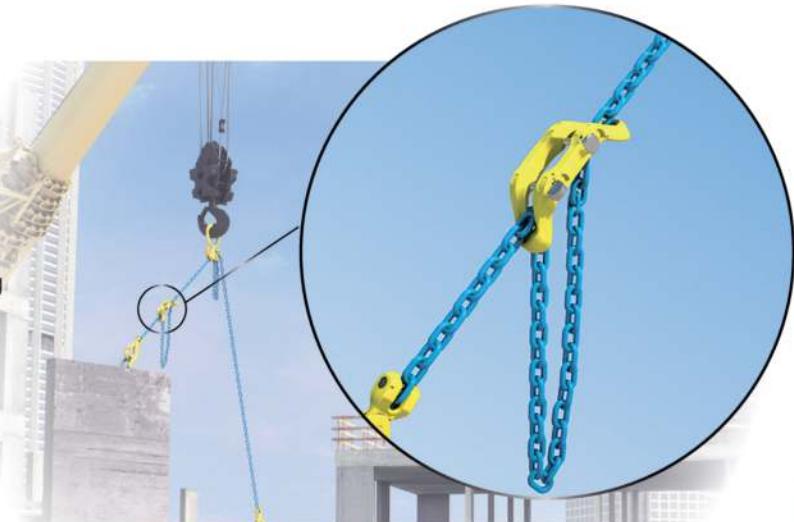
## Chain Tensioner GT

Stock No.	Model	WLL (t)*	L = Min. Length (mm)	L = Max. Length (mm)	Weight (kg)
Z101367	GT-8-10	2.6	400	600	3.3
Z101368	GT-10-10	4.0	400	600	3.3

4:1 Design Factor

## Midgrab Chain Shortener, MIG

- Instant mounting and positioning on any part of the chain.
- Shortening in either chain direction; up-down.
- Designed to prevent inadvertent chain disengagement.
- Can be set idle on the chain leg when shortening is not required.
- LC version offers secure mounting with locking set on any desired part of the chain with one chain direction open for shortening.
- CC version offers close-open function in both chain directions for safe retention of the chain.


**6**

### Locking devices for Midgrab MIG

Note: The MIG should be used with at least one locking devices.

#### L - fixed locking set

For fixed mounting

Code:

L-8: B14905

L-10: B14915

L-13: B14917



#### C - close/open locking set

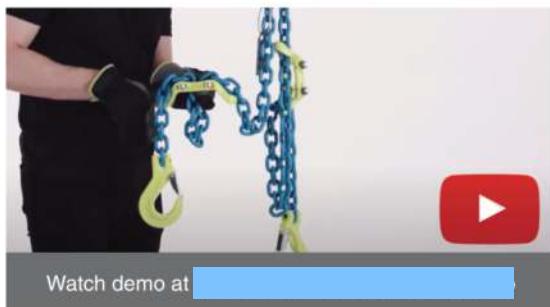
Spring operated locking device. Can be placed either in open or closed position.

Code:

C-8: B14904

C-10: B14914

C-13: B14916



Watch demo at [\[link\]](#)

#### Product code guide – locking options



MIG C



MIG CC



MIG L



MIG LC

### MIG with C pins

For use with Grade 100 or Grade 80 chain.

Stock No.	Code	WLL (t)	Dimensions (mm)			Weight (kg)
			L	X	Y	
B14303	MIG CC-8-10	2.6	95	50	60	0.7
B14313	MIG CC-10-10	4.0	125	70	77	1.1
B14323	MIG CC-13-10	6.8	150	90	80	2.6

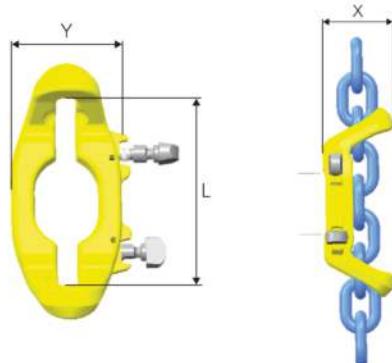
4:1 Design Factor

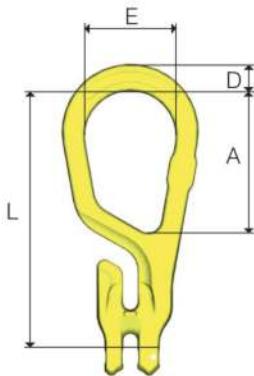
### MIG without pins

For use with Grade 100 or Grade 80 chain.

Stock No.	Code	WLL (t)	Dimensions (mm)			Weight (kg)
			L	X	Y	
B14300	MIG-8-10	2.6	95	50	60	0.6
B14310	MIG-10-10	4.0	125	70	77	1.0
B14320	MIG-13-10	6.8	150	90	80	2.5

4:1 Design Factor



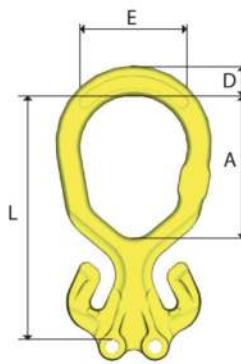


## Master Grab MG

For use with Grade 100 or Grade 80 chain. "All-in-one" compact top link.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	A	E	D	
B14710	MG-6-10	1.5	145	88	60	15	0.5
B14711	MG-8-10	2.6	171	92	60	18	0.9
B14712	MG-10-10	4.0	211	113	75	22	1.8
B14713	MG-13-10	6.8	261	138	90	26	3.5
B14714	MG-16-10	10.3	311	157	105	31	6.1

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.



## Master Grab Duo MGD

For use with Grade 100 or Grade 80 chain. "All-in-one" compact top link for 2-leg slings.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	A	E	D	
B14700	MGD-6-10	2.1	144	90	60	17	0.7
B14701	MGD-8-10	3.5	171	100	75	21	1.3
B14702	MGD-10-10	5.6	211	124	90	24	2.3
B14703	MGD-13-10	9.5	262	149	105	31	5.2
B14704	MGD-16-10	14.0	310	175	120	35	7.9

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

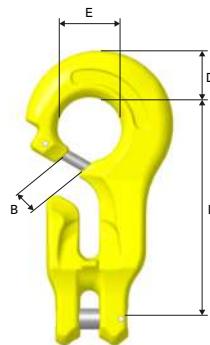
## MASTER GRAB DUO

With the all-in-one compact top link Master Grab Duo (MGD), every chain leg can instantly be altered between a straight lift to a looped sling in a matter of seconds. The innovative design with few components and built-in shortening function makes the MGD the perfect foundation for a cost-efficient and safe chain sling solution.

The MGD solution makes it possible to reduce weight by approximately 50%.

With fewer components, lifting operations also becomes much more efficient, saving time and money.

Watch the Master Grab Duo video at [\[Video Link\]](#)

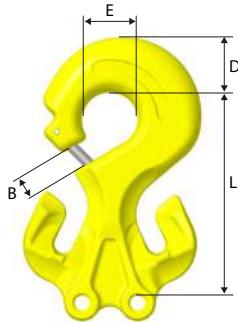


## C-Grab CG

For use with Grade 100 or Grade 80 chain. For use with MF master and BK type hooks.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	E	D	
B14730	CG-6-10	1.5	80	11	24	19	0.3
B14731	CG-8-10	2.6	107	12	32	24	0.7
B14732	CG-10-10	4.0	134	15	40	29	1.5
B14733	CG-13-10	6.8	172	18	52	38	3.2
B14734	CG-16-10	10.3	215	22	64	47	6.1

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

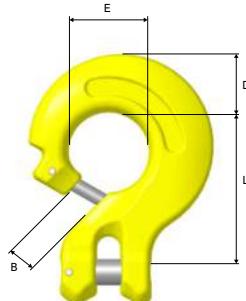


## C-Grab Duo CGD

For use with Grade 100 or Grade 80 chain. For use with master links.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	E	D	
B14720	CGD-6-10	2.1	79	11	24	20	0.6
B14721	CGD-8-10	3.5	107	12	32	29	1.1
B14722	CGD-10-10	5.6	134	15	40	37	2.2
B14723	CGD-13-10	9.5	173	19	48	48	5.4
B14724	CGD-16-10	14.0	215	22	64	57	9.1

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

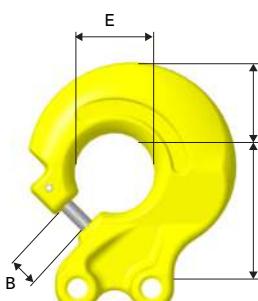


## C-Lok CL

For use with Grade 100 or Grade 80 chain. For use with master links, eye hooks and choke.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	E	D	
B14750	CL-6-10	1.5	43	11	24	18	0.2
B14751	CL-8-10	2.6	58	12	32	24	0.5
B14752	CL-10-10	4.0	74	15	40	29	1.0
B14753	CL-13-10	6.8	94	18	52	38	2.0
B14754	CL-16-10	10.3	119	22	64	48	3.8

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.



## C-Lok Duo CLD

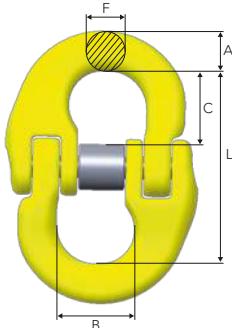
For use with Grade 100 or Grade 80 chain. For use with master links.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	E	D	
B14740	CLD-6-10	2.1	43	11	24	22	0.4
B14741	CLD-8-10	3.5	58	12	32	29	0.6
B14742	CLD-10-10	5.6	74	15	40	37	1.2
B14743	CLD-13-10	9.5	94	18	52	46	3.1
B14744	CLD-16-10	14.0	119	25	64	57	5.5

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

## Coupling Link G

For use with Grade 100 or Grade 80 chain. For use with master link and eye hook.

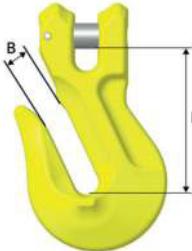


Stock No.	Code	WLL (t)	Dimensions (mm)					Weight (kg)
			L	B	F	A	C	
Z100821	G-6-10	1.5	45	15	7	8	16	0.1
Z101358	G-7-10	2.0	56	18	9	11	22	0.2
Z100822	G-8-10	2.6	56	18	9	11	22	0.2
Z100823	G-10-10	4.0	68	25	12	13	26	0.3
Z100824	G-13-10	6.8	89	29	15	17	33	0.7
Z100825	G-16-10	10.3	106	36	19	20	40	1.4
Z101119	G-20-10	16.0	125	43	23	26	44	2.2
Z101339	G-22-10	20.0	152	50	26	28	59	3.6
Z101365	G-26-10	27.3	161	58	32	34	61	5.7
Z101666	G-32-10	40.0	200	70	38	40	77	9.5

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M-02 and AS 3776:2015.

## Grab Hook GG

Clevis shortening hook. For use with Grade 100 or Grade 80 chain. No reduction of working load limit, thanks to supporting cradle lugs on either side of hook to prevent chain link deformation.

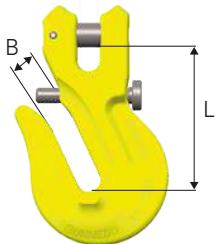


Stock No.	Code	WLL (t)	Dimensions (mm)		Weight (kg)
			L	B	
Z101844	GG-6-10	1.5	54	8	0.2
Z100845	GG-7-10	2.0	57	10	0.3
B14771	GG-8-10	2.6	57	10	0.4
B14772	GG-10-10	4.0	76	12	0.9
B14773	GG-13-10	6.8	97	16	1.8
B14774	GG-16-10	10.3	114	20	3.1
Z101152	GG-20-10	16.0	147	26	7.0

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

## Grab Hook GG with Locking Pin

Clevis shortening hook with locking pin for extra safety. For use with Grade 100 or Grade 80 chain. No reduction of working load limit, thanks to supporting cradle lugs on either side of hook to prevent chain link deformation.

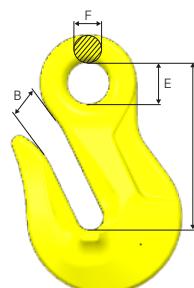


Stock No.	Code	WLL (t)	Dimensions (mm)		Weight (kg)
			L	B	
B14971	GG-8-10 LP	2.6	57	10	0.4
B14972	GG-10-10 LP	4.0	77	12	0.9
B14973	GG-13-10 LP	6.8	97	16	1.9
B14974	GG-16-10 LP	10.3	114	20	3.2

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

## Grab Hook OG

Eye shortening hook. For use with Grade 100 or Grade 80 chain. No reduction of working load limit, thanks to supporting lugs on either side of hook to prevent chain link deformation.

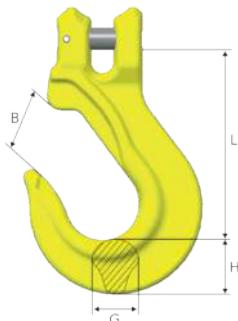


Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	E	F	
Z101296	OG-7/8-10	2.6	65	10	17	10	0.3
Z101297	OG-10-10	4.0	85	12	20	12	0.7
Z101298	OG-13-10	6.8	104	16	26	16	1.6
Z101299	OG-16-10	10.3	131	20	32	19	2.8
Z101300	OG-20-10	16.0	167	26	41	23	6.1
Z101301	OG-22-10	20.0	187	26	46	26	7.75
Z101302	OG-26-10	27.3	228	32	55	38	14
Z101303	OG-32-10	40.0	229	40	50	27	20.7

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

## Sling Hook EGK

For use with Grade 100 or Grade 80 chain. Sling hook with clevis connector.

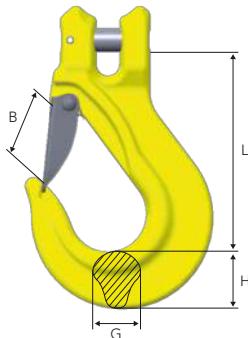


Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	H	
Z100915	EGK-6-10	1.5	86	29	17	20	0.4
Z100918	EGK-7-10	2.0	95	32	17	22	0.5
Z100938	EGK-8-10	2.6	95	32	17	23	0.5
Z100942	EGK-10-10	4.0	121	41	23	31	1.0
Z100946	EGK-13-10	6.8	145	49	28	38	2.0
Z100950	EGK-16-10	10.3	170	61	36	46	3.8
Z101138	EGK-20-10	16.0	209	71	42	60	7.3

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

## Sling Hook EGKN

For use with Grade 100 or Grade 80 chain. Sling hook with latch.

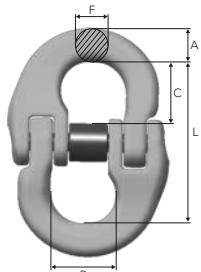


Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	H	
B14460	EGKN-6-10	1.5	86	25	17	20	0.4
Z100843	EGKN-7-10	2.0	95	27	17	23	0.5
B14461	EGKN-8-10	2.6	95	28	17	23	0.5
B14462	EGKN-10-10	4.0	121	35	23	31	1.1
B14463	EGKN-13-10	6.8	145	42	28	38	2.2
B14464	EGKN-16-10	10.3	170	53	36	46	4.0
Z101127	EGKN-20-10	16.0	209	65	42	60	7.6

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

## Coupling Link GF – stain proof

High strength stainless steel.

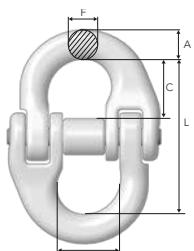


Stock No.	Code	WLL (t)	For chain dim. (mm)	Dimensions (mm)					Weight (kg)
				L	B	F	A	C	
B80202	GF-10-8 SP	3.2	10	68	25	11	13	26	0.3
B80203	GF-13-8 SP	5.4	13	89	30	15	16	33	0.7
B80204	GF-16-8 SP	8.2	16	105	36	19	20	40	1.2

4:1 Design Factor

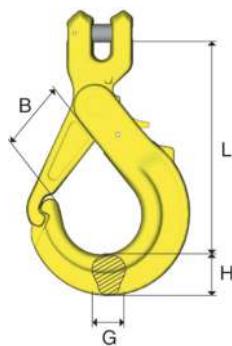
## Coupling Link G HDG

Hot-dip galvanized for marine environments.



Stock No.	Code	WLL (t)	Dimensions (mm)					Weight (kg)
			L	B	F	A	C	
ZG100821	G-6-8 HDG	1.12	45	15	7	8	17	0.1
ZG100822	G-8-8 HDG	2.0	56	18	9	11	22	0.2
ZG100823	G-10-8 HDG	3.2	68	25	11	13	26	0.3
ZG100824	G-13-8 HDG	5.4	89	30	15	16	33	0.7
ZG100825	G-16-8 HDG	8.2	102	36	19	20	40	1.2

4:1 Design Factor



## Safety Hook GBK

For use with Grade 100 or Grade 80 chain. Safety hook with clevis connector and grab latch.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	H	
Z100758	GBK-6-10	1.5	87	26	15	17	0.4
Z100849	GBK-7-10	2.0	114	36	20	22	0.5
Z100759	GBK-8-10	2.6	119	36	20	22	0.8
Z100760	GBK-10-10	4.0	150	47	22	29	1.4
Z100761	GBK-13-10	6.8	172	53	29	38	2.7
Z100762	GBK-16-10	10.3	208	68	30	45	4.4

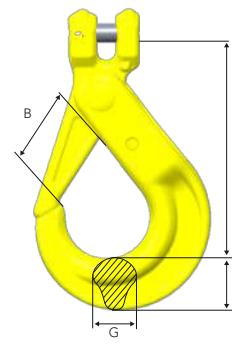
4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

## Safety Hook BKG

For use with Grade 100 or Grade 80 chain. Safety hook with clevis connector and standard latch.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	H	
Z101110	BKG-6-10	1.5	91	29	15	21	0.5
Z101098	BKG-7-10	2.0	120	37	17	22	0.5
Z101100	BKG-8-10	2.6	121	37	17	26	0.9
Z101026	BKG-10-10	4.0	144	45	21	31	1.5
Z101034	BKG-13-10	6.8	180	55	30	40	3.0
Z101042	BKG-16-10	10.3	219	62	37	50	5.5
Z101091	BKG-20-10	16.0	240	68	46	64	9.6

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

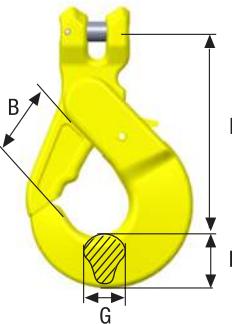


## Safety Hook BKGC

For use with Grade 100 or Grade 80 chain. Safety hook with clevis connector for skip loaders.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	H	
Z1002401	BKGC-13-10	6.8	164	55	27	43	3.2

4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.

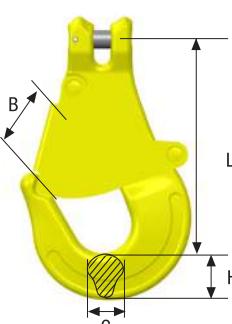


## Sling Hook GKC

For use with Grade 100 or Grade 80 chain. Sling hook with clevis connector for skip loaders.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	H	
Z7006461	GKC-13-10	6.8	188	60	27	43	2.5

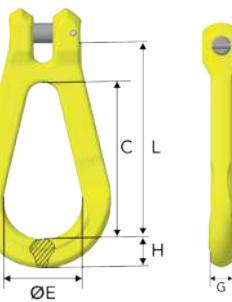
4:1 Design Factor. Fulfils requirements in: EN 1677:2008 (WLL +25%), ASTM A952/A952M and AS 3776:2015.



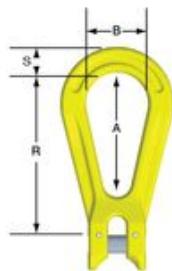
## Clevis Egglink CEL

Stock No.	Code	WLL (t)	C	E	G	H	L	Weight (kg)
Z701968	CEL-8-10	2.6	80	40	14	15	100	0.4
Z701969	CEL-10-10	4.0	100	50	18	19	126	0.7
Z701970	CEL-13-10	6.8	130	65	23	25	162	1.5

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

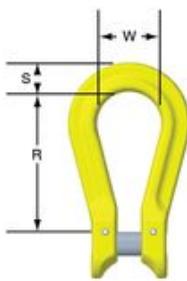


## Egg Link KSS

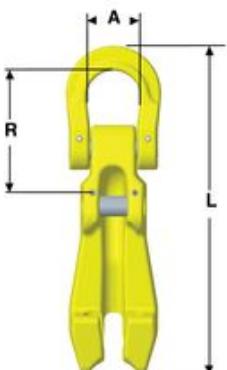


Model	Stock No.	Chain Diameter (mm)	Dimensions (mm)				Weight (kg)
			A	B	R	S	
KSS7N	Z2780422	7	70	35	92	13	.27
KSS10N	Z2780431	10	102	51	132	18.5	.74
KSS13N	Z2780440	13	137	67	177	26	1.92
KSS16N	Z2780459	16	172	83	220	31	3.17
KSS19N	Z2780468	19	203	98	261	37	5.58
KSS23N	Z2780477	23	238	114	305	40	8.42
KSS26N	Z2780486	26	273	133	351	46	14.51

## Kupler K



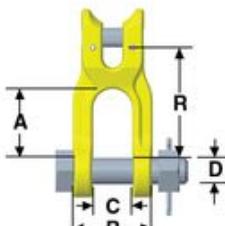
Model	Stock No.	Chain Diameter (mm)	Dimensions (mm)			Weight (kg)
			R	W	S	
K7N	Z2780495	7	60	26	12.5	.15
K10N	Z2780501	10	73	35	19	.47
K13N	Z2780510	13	95	45	25	1.01
K16N	Z2780529	16	118	54	29	1.66
K19N	Z2780538	19	134	64	34	2.78
K23N	Z2780547	23	121	64	45	4.26
K26N	Z2780556	26	140	82	48	6.30
K32N	Z2780574	32	178	96	64	11.48



## Shortening Clutch KSC N

Unique component for leg length adjustment. It accommodates loads of irregular shape or with a general lack of headroom and allows safe leg length adjustment of any number of legs with the load remaining fully in line.

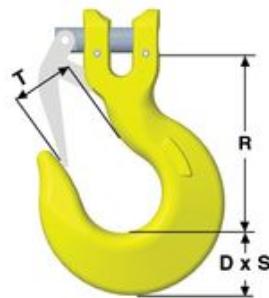
Stock No.	Reference	WLL (t)		Dimensions (mm)			Weight (kg)
		8	8+10	L	R	A	
Z2780716	KSC7N	1.5	2	161	60	26	.53
Z2780725	KSC10N	3.2	4	211	73	36	1.28
Z2780734	KSC13N	5.3	6.7	272	95	46	2.7
Z2780743	KSC16N	8	10	360	118	56	5.26
Z2780752	KSC19N	11.2	14	427	134	68	9.87



## Narrow Jaw Shackle KDN

Narrow jaw shackle for connection from pad eye or similar directly to chain.

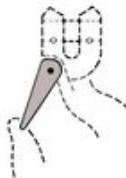
Stock No.	Reference	WLL (t)		Dimensions (mm)				Weight (kg)
		8	8+10	A	B	C	R	
Z2781369	KDN7N	1.5	2	36	42	20	57	14
Z2781378	KDN10N	3.2	4	53	58	28	83	20
Z2781387	KDN13N	5.3	6.7	72	74	35	106	24
Z2781396	KDN16N	8	10	83	90	44	127	30



## Sling Hook KHN L

This hook is most widely used in general purpose slinging.

Stock No.	Reference	WLL (lb)			Dimensions (in)				Weight (lb)	
		8	8+10	R	D	S	No Latch	With Latch	No Latch	With Latch
2780887	*KH23	35280	46305	8.74	3.11	2.01	2.99	2.36	25.11	28.97
2780896	*KH26	46746	59535	9.88	3.50	2.36	3.35	2.83	35.41	41.76
2780903	KHN32L	69457	88200	13.15	4.65	3.35	4.45	4.17	72.02	76.32



## Safety Latch KHL N

A robust latch to prevent accidental detachment of the load.

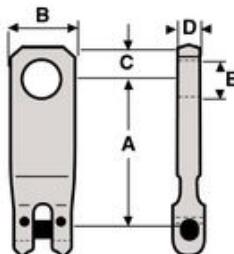
Stock No.	Reference	Part Number	Hook Reference
2780967	KHL32N	2781939	KHN32



## Hook Latch Assembly KHL

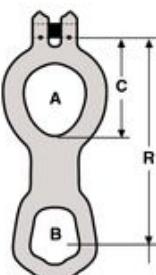
This assembly is for use with KH23 and KH26 and comprises a load pin to which the latch is attached.

Stock No.	Reference	Part Number	Hook Reference
2780976	KHL23	2780887	KH23
2780985	KHL26	2780896	KH26



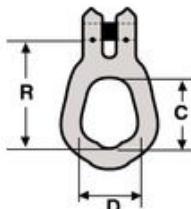
## Top Suspension Plates

Stock No.	Type Size/ Reference	WLL (lb)		Dimensions (in)					Weight (lb)
		8	8+10	A	B	C	D	E	
2781555	C151401	11686	14773	6.02	2.44	1.26	0.79	1.42	3.51
2781564	C151402	11686	14773	5.51	2.44	1.26	0.79	1.42	3.35



## Keep Plate C2247

Stock No.	Type Size/ Reference	WLL (lb)		Dimensions (in)					Weight (lb)
		8	8+10	A	B	C	R		
2781617	C2247	11686	14773	3.72 x 2.99	2.91 x 2.28	5.24	11.85		3.48



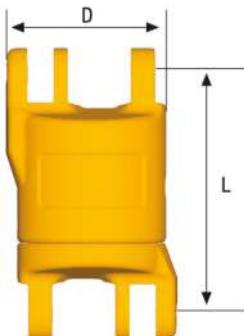
## Single Trunnion Plate C1513

Stock No.	Type Size/ Reference	WLL (lb)		R	Dimensions (in)			Weight (lb)
		8	8+10		C	D		
2781626	C1513	11686	14773	4.41	2.91	2.28		3.31

## Roller-Bearing Swivel, SKLI/SKLU

Electrically insulated, lubricated, sealed roller bearing swivel. Fully rotational even at maximum load. Tested to resist 1000 V. Suitable for protection of overhead cranes during welding operations on suspended loads.

The Gunnebo Industries SKLI is equipped with a heavy duty roller bearing, enabling high durability and safe use also under severe load. It also has heavy duty nylon insulation inside to decrease friction when in use. The SKLI is compatible with the entire Gunnebo Industries SK-range for versatile use.



### Roller-bearing Swivel SKLI/SKLU

For use with Grade 80 chain.

Stock No.	Code	WLL (t)	Dimensions (mm)		Weight (kg)
			L	D	
Z100316	SKLI-7/8-8	2.0	75	48	0.7
Z100414	SKLI-10-8	3.2	97	59	1.3
Z100415	SKLI-13-8	5.4	120	75	2.8
Z100416	SKLI-16-8	8.0	137	90	4.6
Z100417	SKLI-18/20-8	12.8	159	104	7.3
RS16520	SKLU-22-8*	15.5	160	109	9.2
RS16530	SKLU-26-8*	21.7	207	135	18.3

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

\* Uninsulated

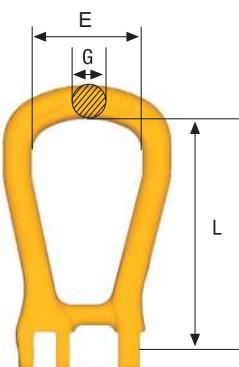


### Load Pin and Locking Collar – SKA

For use with Grade 80 chain.

Stock No.	Code	Weight (kg)
Z700674	SKA-6-8	0.01
Z323624	SKA-7/8-8	0.02
Z318024	SKA-10-8	0.04
Z303822	SKA-13-8	0.08
Z303725	SKA-16-8	0.14
Z145048	SKA-18/20-8	0.26
Z133530	SKA-22-8	0.35
Z605407	SKA-26-8	0.63
Z650554	SKA-32-8	1.05

4:1 Design Factor.

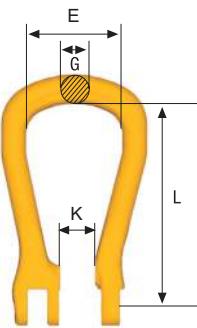


### Master Link SKG (closed)

For use with Grade 80 chain. F or use with SK system.

Stock No.	Code	WLL (t)	Dimensions (mm)			Weight (kg)
			L	E	G	
Z419684	SKG-7/8-8	2.0	99	50	14	0.3
Z419781	SKG-10-8	3.2	127	66	18	0.6
Z419888	SKG-13-8	5.4	145	72	22	1.1
Z419985	SKG-16-8	8.2	175	82	25	1.5
Z420086	SKG-18/20-8	12.8	204	105	30	3.0

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.



## Master Link SKO (open)

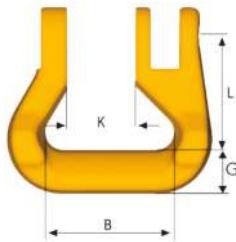
For use with Grade 80 chain. For use with SK system.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	E	G	K	
Z418683	SKO-7/8-8	2.0	99	50	14	15	0.3
Z418780	SKO-10-8	3.2	127	66	18	20	0.6
Z419383	SKO-13-8	5.4	145	72	22	25	1
Z419480	SKO-16-8	8.2	175	82	25	30	1.5
Z419587	SKO-18/20-8	12.8	204	105	30	36	2.9

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

## Roundsling Coupling SKR

Special shape for full WLL of the roundsling. For use with SK system.

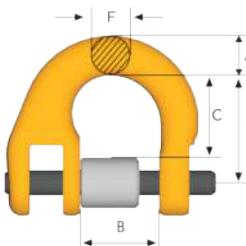


Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	K	
Z127840	SKR-7/8-8	2.0	35	40	13	18	0.2
Z143143	SKR-10-8	3.2	42	47	16	24	0.4
Z302538	SKR-13-8	5.4	50	53	19	29	0.7
Z143240	SKR-16-8	8.2	62	67	23	35	1.3
Z143347	SKR-18/20-8	12.8	71	80	28	43	1.9
Z100057	SKR-22-8	15.5	111	125	40	50	5.3
Z100055	SKR-26-8	21.7	129	150	48	58	8.9

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

## Half-link SKT (includes locking set)

For use with SK system.

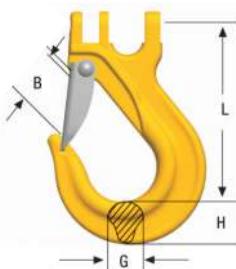


Stock No.	Code	WLL (t)	Dimensions (mm)					Weight (kg)
			L	B	F	A	C	
Z426286	SKT-7/8-8	2.0	28	18	9	11	22	0.1
Z426383	SKT-10-8	3.2	34	25	11	13	26	0.2
Z426480	SKT-13-8	5.4	44	30	15	16	33	0.4
Z426587	SKT-16-8	8.2	52	36	19	20	40	0.6
Z426684	SKT-18/20-8	12.8	63	43	22	23	47	1.1
Z100225	SKT-22-8	15.5	76	50	24	26	59	1.7
Z100226	SKT-26-8	21.7	80	58	30	33	61	2.6
Z100227	SKT-32-8	32.8	100	70	38	40	78	4.9

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

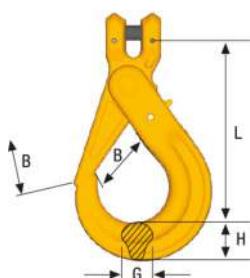
## Sling Hook ESKN/SKN with Latch

For use with SK system.



Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	H	
Z424682	SKN-7/8-8	2.0	90	27	18	21	0.4
Z424789	SKN-10-8	3.2	115	34	23	29	0.8
Z101214	ESKN-13-8	5.4	145	42	28	36	1.8
Z100786	ESKN-16-8	8.2	178	52	36	43	3.4
Z100781	ESKN-18/20-8	12.8	197	54	42	51	5.0

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

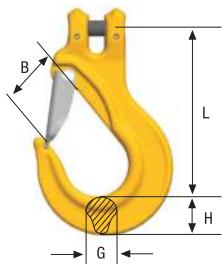


## Safety Hook BKG

For use with Grade 80 chain.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	H	
Z297222	BKG-7/8-8	2.0	120	37	17	26	0.9
Z295929	BKG-10-8	3.2	143	45	21	30	1.5
Z291527	BKG-13-8	5.4	179	55	30	39	2.8
Z291624	BKG-16-8	8.2	217	62	37	48	5.1

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

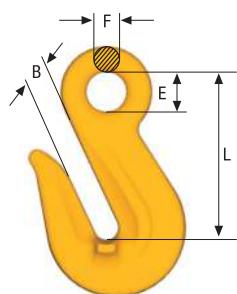


## Sling Hook EGKN with Latch

For use with Grade 80 chain.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	H	
Z100744	EGKN-7/8-8	2.0	95	29	17	22	0.5
Z100772	EGKN-10-8	3.2	121	37	20	29	0.9
Z100773	EGKN-13-8	5.4	147	42	27	36	2.0
Z100774	EGKN-16-8	8.2	170	52	34	44	3.6

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

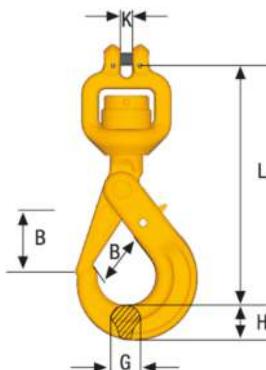


## Grab Hook OG

For use with Grade 80 chain. Not for use with Berglok. No reduction of working load limit, thanks to supporting lugs on either side of hook to prevent chain link deformation.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	E	F	
Z100811	OG-7/8-8	2.0	65	10	16	10	0.3
Z291022	OG-10-8	3.2	85	12	20	12	0.6
Z295220	OG-13-8	5.4	104	15	25	16	1.2
Z296221	OG-16-8	8.2	130	19	30	19	2.4

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

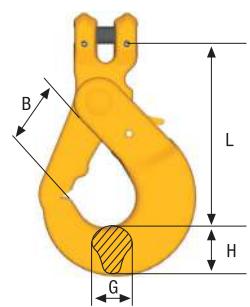


## Clevis Swivel Safety Hook BKH

For use with Grade 80 chain. Safety hook with swivel for improved positioning of the hook before the load is lifted (360° rotation).

Stock No.	Code	WLL (t)	Dimensions (mm)					Weight (kg)
			L	B	K	G	H	
Z336222	BKH-6-8	1.1	145	29	6.8	15	21	0.7
Z700809	BKH-7/8-8	2.0	181	37	8.8	17	26	1.2

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.



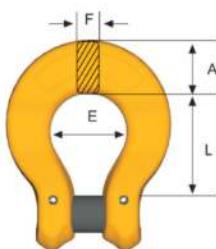
## Container Hook BKGC

For use with Grade 80 chain.

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	B	G	H	
Z100242	BKGC-16-8	8.2	160	55	27	43	3.4

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

Spare part: RDOBK

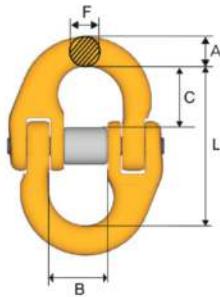


## Berglok Chain Coupler BL

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			L	E	F	A	
Z622036	BL-6-8	1.1	27	20	9	14	0.1
Z195823	BL-7/8-8	2.0	35	25	11	18	0.2
Z208022	BL-10-8	3.2	45	32	14	22	0.4
Z217820	BL-13-8	5.4	56	40	17	28	0.8
Z208226	BL-16-8	8.2	68	50	22	35	1.4

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

## Coupling Link G



Stock No.	Code	WLL (t)	Dimensions (mm)					Weight (kg)
			L	B	F	A	C	
Z622882	G-6-8	1.1	45	15	7	8	17	0.1
Z279333	G-7/8-8	2.0	56	18	9	11	22	0.2
Z279430	G-10-8	3.2	68	25	11	13	26	0.3
Z279537	G-13-8	5.4	89	30	15	16	33	0.7
Z279634	G-16-8	8.2	105	36	19	20	40	1.2
Z279731	G-18/20-8	12.8	125	43	22	23	47	1.9
Z279838	G-22-8	15.5	152	50	24	26	59	3.0
Z349171	G-26-8	21.7	161	58	30	33	61	5.2
Z349189	G-32-8	32.8	200	70	38	40	77	9.5

4:1 Design Factor. Fulfils requirements in: EN 1677:2008, ISO 8539:2009, ASTM A952/A952M and AS 3776:2015.

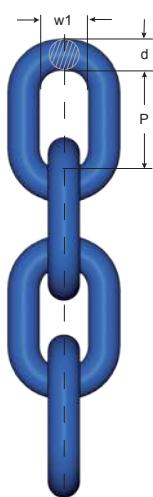


Chain production plant in Gunnebo, Sweden

## BEHIND THE SCENES

Get a behind-the-scenes look at some of our world-class manufacturing facilities across the globe.

Watch all videos at [\[redacted\]](#)



## Chain, GrabiQ Grade 10 (200)

Short link, KL

Heat treatment:

Quenched & Tempered

Note: For chain Grade 10 (200) the maximum in service temperature is 200°C.

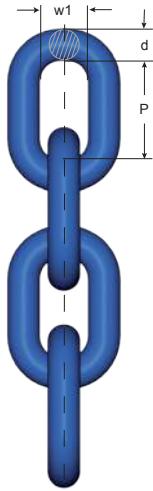
Surface treatment:

Painted blue

Fulfils the requirements in:  
ASTM A973/A973M-07(2012)  
EN 818+2:2008 (WLL +25%,  
reduced temperature range)

Stock No. Box	Code	WLL (t)	Dimensions (mm)			Weight kg / m	MPF kN	Breaking Force (kN)
			d nom.	P	w1			
Z802300 - 1 x 200 m	KLA 6-10 (200)	1.5	6	18	8.5	0.8	36.8	58.9
Z802337 - 1 x 200 m	KLA 7-10 (200)	1.95	7	21	10.0	1.1	48	77
Z802301 - 1 x 200 m	KLA 8-10 (200)	2.6	8	24	11.0	1.4	63	102
Z802302 - 1 x 100 m	KLA 10-10 (200)	4.0	10	30	14.0	2.3	98	158
Z802303 - 1 x 100 m	KLA 13-10 (200)	6.8	13	39	18.8	4.0	166	268
Z802304 - 1 x 100 m	KLA 16-10 (200)	10.3	16	48	21.9	5.6	251	402
Z802305 - 1 x 50 m	KLA 20-10 (200)	16.0	20	60	27.0	9.4	393	630
Z802246 - 1 x 50 m	KLA 22-10 (200)	20.0	22	66	29.0	11.9	491	785
Z802248 - 1 x 50 m	KLA 26-10 (200)	27.0	26	78	35.0	16.4	664	1062
Z802440 - 1 x 25 m	KLA 32-10 (200)	40.0	32	96	41.6	25.8	981	1610

4:1 Design Factor



## Chain, GrabiQ Grade 10 (400)

Short link, KL

Heat treatment:

Quenched & Tempered

Note: For chain Grade 10 (400) the maximum in service temperature is 400°C.

Surface treatment:

Painted blue

Fulfils the requirements in:  
EN 818-2:2008 (WLL+25%,  
material dimension Ø +10%)

Note: This chain is marked with "8+" in addition to the marking required by the machine directive.

Stock No. Box	Code	WLL (t)	Dimensions (mm)			Weight kg / m	MPF kN	Breaking Force (kN)
			d nom.	P	w1			
Z802306 - 1 x 200 m	KLA 6-10 (400)	1.5	6.6	18	8.9	1.0	36.8	58.9
Z802307 - 1 x 200 m	KLA 8-10 (400)	2.5	8.8	24	11.2	1.7	63	102
Z802308 - 1 x 100 m	KLA 10-10 (400)	4.0	11.0	30	14.4	2.6	98	158
Z802309 - 1 x 100 m	KLA 13-10 (400)	6.7	14.3	39	19.2	4.5	166	268
Z802310 - 1 x 100 m	KLA 16-10 (400)	10.0	17.3	48	23.0	6.7	251	402

4:1 Design Factor



## Chain, Classic Grade 8

Short link, KL

Heat treatment:

Quenched & Tempered

Surface treatment:

Painted black (KLB)

Painted yellow (KLU)

Fulfils the requirements in:  
EN 818-2:2008, AS 2321:2014,  
ASTM A391/A 391M-07 (2012)

Stock No. Box	Code	WLL (t)	Dimensions (mm)			Weight kg/m	Manufacturing Proof Force (kN)	Breaking Force (kN)
			d nom.	P	w1			
Z802174 - 1 x 200 m	KLB 6-8E	1.1	6	18	8.5	0.8	28.3	45.2
Z802175 - 1 x 200 m	KLB 7-8E	1.5	7	21	10.0	1.1	38.5	62
Z802176 - 1 x 200 m	KLB 8-8E	2.0	8	24	11.0	1.4	50.3	80.6
Z802156 - 1 x 100 m	KLB 10-8E	3.2	10	30	14.0	2.3	79	130
Z802157 - 1 x 100 m	KLB 13-8E	5.4	13	39	17.7	3.8	133	214
Z802177 - 1 x 100 m	KLB 16-8E	8.2	16	48	21.9	5.6	201	322
Z801203 - 1 x 100 m	KLB 19-8E	11.6	19	57	27.0	7.8	284	457
Z801228 - 1 x 50 m	KLB 22-8E	15.5	22	66	29.5	10.6	380	610
Z801231 - 1 x 50 m	KLB 26-8E	21.6	26	78	35.0	14.8	531	850
Z801232 - 1 x 25 m	KLB 32-8E	32.8	32	96	41.6	21.6	804	1300

4:1 Design Factor



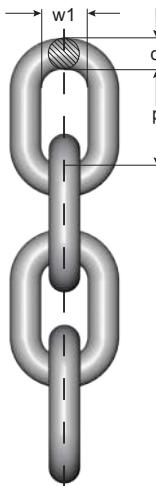
## Chain KLZ HDG

Heat treatment:  
Quenched & Tempered

Surface treatment:  
Hot-dip galvanized

Fulfils the requirements in:  
EN 818-2:2008 (material dim. Ø +10%)  
ISO 1461:2009  
ASTM A391/A391M-07 2012 (material dim. Ø +10%)

Stock No.	Code	WLL (t)	Link Dimensions (mm)			Weight kg/ m	Manufacturing Proof Force (kN)	WLL (kN)	Delivery Length
			d	P	w1				
ZG802306	KLZ-6-8 HDG	1.1	6.6	18	8.9	1.0	36.8	45.2	1 x 100 m
ZG802307	KLZ-8-8 HDG	2.0	8.8	24	11.2	1.7	63.0	80.6	1 x 100 m
ZG802308	KLZ-10-8 HDG	3.2	11.0	30	14.4	2.6	98.0	130	1 x 100 m
ZG802309	KLZ-13-8 HDG	5.4	14.3	39	19.2	4.5	166	214	1 x 100 m
ZG802310	KLZ-16-8 HDG	8.2	17.3	48	23.0	6.7	251	322	1 x 100 m



## Short Link Chain KLFZ, Grade 7

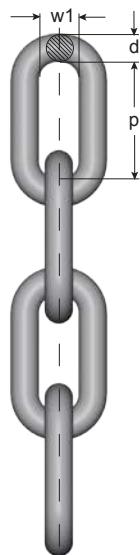
Heat treatment:  
Quenched & Tempered

Surface treatment:  
Hot-dip galvanized

Not for lifting purposes

Stock No.	Code	Link Dimensions (mm)			Weight kg/ m	Min. Breaking Load (kg)	Delivery Length
		d nom.	P	w1			
Z800666	KLFZ-10-7	10	30	14.0	2.2	11.0	1 x 100
Z800667	KLFZ-11-7	11	33	15.0	2.7	12.0	1 x 100
Z802329	KLFZ-13-7	13	39	17.2	3.8	18.0	1 x 100
Z801644	KLFZ-14-7	14	42	21.5	4.5	20.0	1 x 100
Z802901	KLFZ-16-7	16	48	47.0	5.6	26.7	1 x 100
Z801409	KLFZ-17-7	17	48	23.2	6.4	30.0	1 x 100
Z801407	KLFZ-19-7	19	57	27.0	8.1	40.0	1 x 100

Fulfils requirements in: EN 1461:2009 (Average surface thickness 85 µm)



## Mid-Link Chain MLFZ, Grade 7

Heat treatment:  
Quenched & Tempered

Surface treatment:  
Hot-dip galvanized

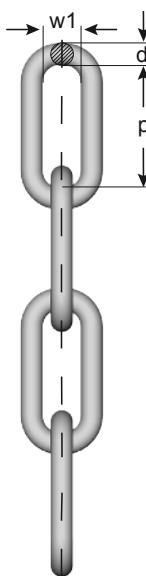
Not for lifting purposes

Stock No.	Code	Link Dimensions (mm)			Min. Breaking Load (ton)	Weight kg / m	Delivery Length
		d nom.	P	w1			
Z802455	MLFZ 10-6*	10	40	14.4	10	2.0	1 x 100 m
Z802335	MLFZ-13-7	13	55	20.2	18	3.3	1 x 100 m
Z801645	MLFZ-16-7	16	65	20.5	26.2	5.0	1 x 100 m
Z801477	MLFZ-19-7	19	75	29	37	7.1	1 x 100 m

Fulfils requirements in: EN 1461:2009 (Average surface thickness 85µm)

\* Average surface thickness 70µm.

6



## Long Link Chain LLZ, Grade 6

Heat treatment:  
Quenched & Tempered

Surface treatment:  
Hot-dip galvanized

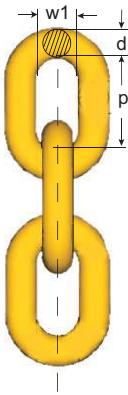
Not for lifting purposes

Stock No.	Code	Link Dimensions (mm)			Min. Breaking Load (ton)	Weight kg / m	Delivery Length
		d nom.	P	w1			
Z802453	LLZ-9-6*	9	53	14.3	7.8	1.4	1 x 100 m
Z802454	LLZ-11-6*	11	64	18.5	11.6	2.1	4 x 100 m
Z800682	LLZ-13-6	13	80	21.1	16.3	2.9	3 x 100 m
Z802207	LLZ-13-6	13	80	21.1	16.3	2.9	1 x 229,5 m
Z801567	LLZ-16-6	16	100	28	24.7	4.6	1 x 100 m
GS1073	LLZ-16-6	16	100	28	24.7	4.6	1 x 200 m
Z801458	LLZ-19-6	19	100	28	34.8	6.5	1 x 120 m
Z801887	LLZ-22-6	22	120	36	46.6	8.7	1 x 50 m
Z802447	LLZ-25-6	25	140	39	60.0	12.0	1 x 50 m
Z802449	LLZ-28-6	28	150	39	75.3	14.9	1 x 50 m
Z802451	LLZ-32-6	32	170	44	98.3	19.0	1 x 50 m

Fulfils requirements in: EN 1461:2009 (Average surface thickness 85µm)

\* Average surface thickness 70µm.

## Short Link Chain KLFU, Grade 8



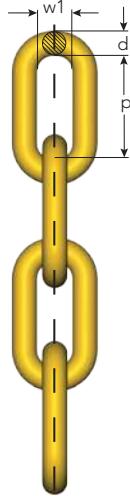
Heat treatment:  
Quenched & Tempered,  
Stress relieved

Surface treatment:  
Painted yellow

Not for lifting purposes

Stock No.	Code	Link Dimensions (mm)			Weight kg / m	Min. Breaking Load (t)	Delivery Length
		d nom.	P	w1			
Z802330	KLFU-10-8	10	30	14.0	2.2	12.6	1 x 100 m
Z802331	KLFU-13-8	13	39	17.6	3.7	21.4	1 x 100 m
Z801146	KLFU-16-8	16	48	21.5	5.8	32.2	1 x 100 m
Z327377	KLFU-19-8	19	57	27.0	8.0	45.4	1 x 100 m
Z327385	KLFU-22-8	22	66	30.0	11.0	61	1 x 50 m
Z801505	KLFU-26-8	26	78	35.0	14.8	86	1 x 50 m

## Mid-Link Chain MLFU, Grade 8



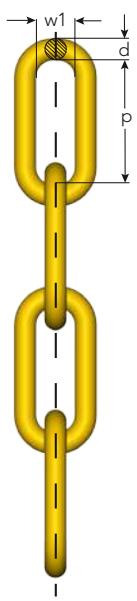
Heat treatment:  
Quenched & Tempered,  
Stress relieved

Surface treatment:  
Painted yellow

Not for lifting purposes

Stock No.	Code	Link Dimensions (mm)			Weight kg / m	Min. Breaking Load (t)	Delivery Length
		d nom.	P	w1			
Z802332	MLFU-10-8	10	40	14.4	2.0	12.6	1 x 100 m
Z802333	MLFU-13-8	13	55	20.2	3.3	21.4	1 x 100 m
Z800564	MLFU-16-8	16	65	20.5	5.0	32.2	1 x 100 m
Z800476	MLFU-19-8	19	75	29.0	7.1	45.4	1 x 100 m
Z800661	MLFU-22-8	22	88	30.0	9.4	61	1 x 50 m
Z801770	MFLU-26-8	26	91	34.0	13.9	86	1 x 50 m

## Long-Link Chain LLU, Grade 8



Heat treatment:  
Quenched & Tempered,  
Stress relieved

Surface treatment:  
Painted yellow

Not for lifting purposes

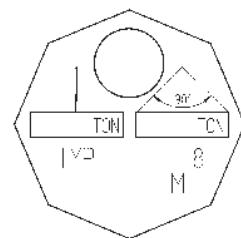
Stock No.	Code	Link Dimensions (m)			Weight kg / m	Min. Breaking Load (t)	Delivery Length
		d	P	w1			
Z801934	LLU-9-8	9	53	14.3	1.4	10.2	4 x 100 m
Z801935	LLU-11-8	11	64	18.5	2.1	15.4	4 x 100 m
Z801936	LLU-13-8	13	80	21.1	2.9	21.4	3 x 100 m
Z802160	LLU-16-8	16	100	27.0	4.6	32.2	1 x 100 m
Z601983	LLU-19-8	19	100	27.0	6.5	45.4	1 x 100 m
Z700526	LLU-22-8	22	120	35.0	8.7	61	1 x 50 m

## Spare Part RDGG

Spare part set consisting of pin, spring, and locking ring.



Stock No.	Code	Weight (kg)
B17930	RDGG-8-10 locking pin	0.03
B17931	RDGG-10-10 locking pin	0.04
B17932	RDGG-13-10 locking pin	0.05
B17933	RDGG-16-10 locking pin	0.06



## Id-tag Grade 8

Stainless steel.

Stock No.	Code
Z100004	Id-tag

**6**

## Sling Id-tag Grade 10

Stainless steel. Sling Id-tag Grade 10 according to EN 818.



Stock No.	Code
B14841	Flexitag 6 mm with ferrule and wire
B14842	Flexitag 8 mm with ferrule and wire
B14843	Flexitag 10 mm with ferrule and wire
B14844	Flexitag 13 mm with ferrule and wire
B14845	Flexitag 16 mm with ferrule and wire
Z100971	Flexitag 6 mm
Z100972	Flexitag 8 mm
Z100973	Flexitag 10 mm
Z100974	Flexitag 13 mm
Z100975	Flexitag 16 mm
Z101077	Flexitag 20 mm
Z100899	Flexitag Neutral



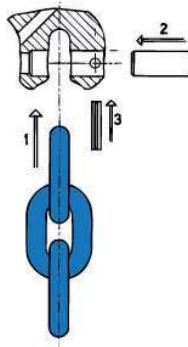
Stainless steel. Sling Id-tag Grade 10 acc. to ASME.

Stock No.	Code
697053	US/CANADA FLEXI LEG TAG KIT (6MM)
697054	US/CANADA FLEXI LEG TAG KIT (8MM)
697055	US/CANADA FLEXI LEG TAG KIT (10MM)
697056	US/CANADA FLEXI LEG TAG KIT (13MM)
697057	US/CANADA FLEXI LEG TAG KIT (16MM)



## Load Pin Set CLS

Clevis connection set consisting of one load pin and one spring retaining pin.

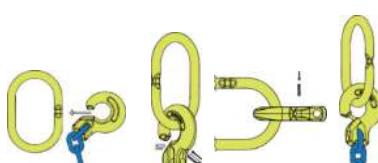


Stock No.	Code	Weight (kg)
B14930	CLS- 6	0.01
B14931	CLS- 8	0.02
B14932	CLS-10	0.04
B14933	CLS-13	0.09
B14934	CLS-16	0.16
B14935	CLS-20	0.26



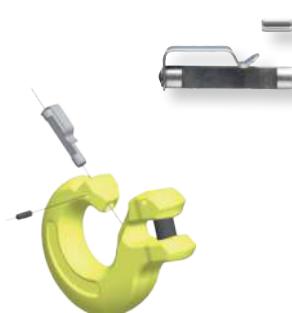
## Spare Part CS

C-connection set for CG, CGD, CL, CLD, and RH hook, consisting of one blocking pin and one spring retaining pin, for locking.



Assembly: C-coupling - C-grab/C-lok with MF

Stock No.	Code	Weight (kg)
B14920	CS- 6-10	0.01
B14921	CS- 8-10 / RH-1& -2	0.01
B14922	CS-10-10 / RH-3	0.01
B14923	CS-13-10	0.03
B14924	CS-16-10 / RH-5	0.05



## Close/Open Locking Set FlexiLeg Quick Pin

Stock No.	Code	Weight (kg)
Z101010	QP-6-10	0.01
Z101011	QP-8-10	0.01
Z101012	QP-10-10	0.01
Z101013	QP-13-10	0.03
Z101014	QP-16-10	0.06

## Locking Set SKA

SKA locking set for G-link, consists of a load pin and locking collar.



Stock No.	Code	Weight (kg)
Z100989	SKA- 6-10	0.01
Z100933	SKA- 7/8-10	0.02
Z100934	SKA-10-10	0.04
Z100990	SKA-13-10	0.08
Z100991	SKA-16-10	0.14
Z101176	SKA-20-10	0.26
Z650555	SKA-22-10	0.35
Z650556	SKA-26-10	0.63
Z650557	SKA-32-10	1.09

Stock No.	Code	Weight (kg)
Z700674	SKA-6-8	0.01
Z323624	SKA-7/8-8	0.02
Z318024	SKA-10-8	0.04
Z303822	SKA-13-8	0.08
Z303725	SKA-16-8	0.14
Z145048	SKA-18/20-8	0.26
Z133530	SKA-22-8	0.35
Z605407	SKA-26-8	0.63
Z650554	SKA-32-8	1.05

## Load Pin Set Berglok BLA

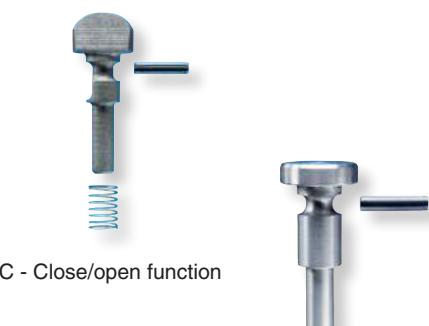
Set for Berglok and clevis type connections. Consists of one load pin and two retaining pins.



Stock No.	Code	Weight (kg)
Z275649	BLA-6-8*	0.01
Z275347	BLA-7/8-8*	0.02
Z275444	BLA-10-8	0.04
Z275648	BLA-13-8	0.08
Z276047	BLA-16-8	0.15
Z276241	BLA-19-8	0.26

\* Also for Safety hook BKH

## Locking Set Midgrab MIG



C - Close/open function

L - Permanent locking function

Stock No.	Code	Weight (kg)
B14904	C-8	0.02
B14905	L-8	0.02
B14914	C-10	0.02
B14915	L-10	0.02
B14916	C-13	0.08
B14917	L-13	0.05

### TO MAKE YOUR CROSBY® GRADE 100 ALLOY CHAIN SLING

Follow these simple steps in making a sling assembly:

- Determine the maximum load to be lifted by the sling assembly.
- Choose the type of sling assembly suited for the shape of the load and the size of the sling assembly for the load to be lifted. The decision must take into account the angle of the sling legs in multileg slings.
- Determine the overall reach from bearing point of master link to bearing point on hook (see Fig. 1).
- Select components, assemble chain and components.
- Affix sling identification tag to sling. The tag is available from your authorized Crosby distributor.

Each sling shall be marked to show: name or trademark of manufacturer, grade, nominal chainsize, number of legs, rated load for the type(s) of hitch(es) used and angle upon which it is based (reach).

If measurement comes in the link, cut the following link. For two leg type slings, count the links and use an even



number for clevis hooks and an odd number for eye hooks. This will position hooks in the same plane. In multileg slings always use the same number of links in each leg.

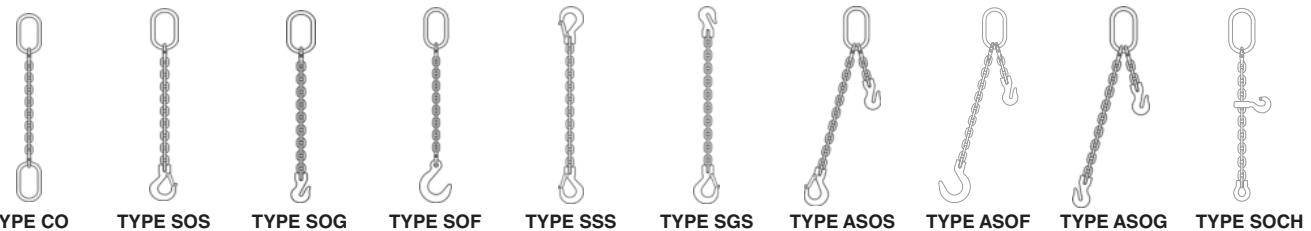


When using chain slings in choker applications, the Working Load Limit must be reduced by 20%. Crosby recommends a minimum angle of choke of 120 degrees. Consult Crosby when planning to use an angle of choke of less than 120 degrees. If Crosby A-1338 cradle grab hooks are used at a minimum angle of choke of 120 degrees, the full sling rated WLL can be utilized.

In shortening applications, a 20% reduction of the Working Load Limit is required except when using the Crosby A-1338 Cradle Grab Hooks, S-1311 Chain Shortener Link, the A-1355 Chain Choker Hook in conjunction with the S-1325 Chain Coupler Link, or the Crosby Eliminator® shortener link. They can be used without any reduction to the Working Load Limit.

The Slings shown below are standard assemblies that can be made from proof tested Crosby components and alloy chain supplied by your authorized Crosby distributor. Assemblies must include a chain sling identification tag.

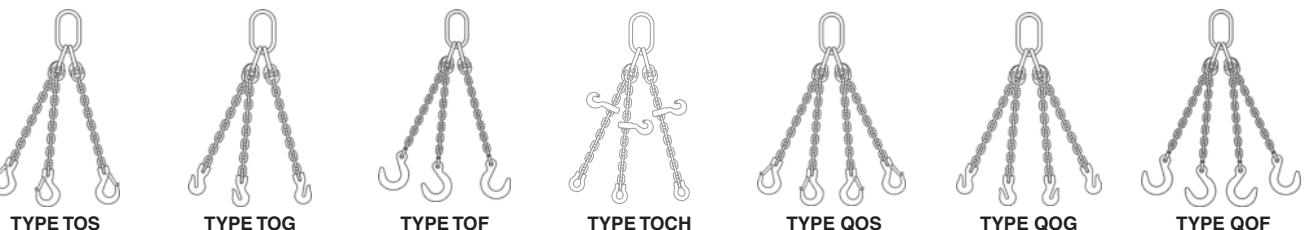
APPLICATION AND WARNING INFORMATION  
SECTION 17



Type	Description	Type	Description
CO	Single chain sling with master link each end	SGS	Single chain sling with grab hook and sling hook
SOS	Single chain sling with master link and sling hook	ASOS	Adjustable single chain with master link and sling hook
SOG	Single chain sling with master link and grab hook	ASOF	Adjustable single chain sling with master link and foundry hook
SOF	Single chain sling with master link and foundry hook	ASOG	Adjustable single chain sling with master link and grab hook
SSS	Single chain sling with sling hook each end	SOCH	Single with 1355 choker



Type	Description	Type	Description
DOS	Double chain sling with master link and sling hook	ADOS	Adjustable double chain sling with master link and sling hook
DOG	Double chain sling with master link and grab hook	ADOG	Adjustable double chain sling with master link and grab hook
DOF	Double chain sling with master link and foundry hook	DOCH	Double with 1355 choker



Type	Description	Type	Description
TOS	Triple chain sling with master link and sling hook	QOS	Quadruple chain sling with master link and sling hook
TOG	Triple chain sling with master link and grab hook	QOG	Quadruple chain sling with master link and grab hook
TOF	Triple chain sling with master link and foundry hook	QOF	Quadruple chain sling with master link and foundry hook
TOCH	Triple with 1355 choker		

**TO ORDER YOUR CROSBY ELIMINATOR® GRADE 100 ALLOY CHAIN SLING**

Follow these simple steps to order a sling assembly:

1. Determine the maximum load to be lifted by the sling assembly.
2. Choose the type of sling assembly suited for the shape of the load and the size of the sling assembly for the load to be lifted. The decision must take into account the angle of the sling legs in multileg slings.
3. Determine the overall reach from bearing point of Eliminator Bail to bearing point on hook (see Fig. 1).
4. Select components, assemble chain and components.
5. Affix sling identification tag to sling. The tag is available from your authorized Crosby distributor.

Each sling shall be marked to show: name or trademark of manufacturer, grade, nominal chain size, number of



**Fig. 1**

legs, rated load for the type(s) of hitch(es) used and angle upon which it is based (reach).

When using chain slings in choker applications, the Working Load Limit must be reduced by 20%. Crosby recommends a minimum angle of choke of 120 degrees. Consult Crosby when planning to use an angle of choke of less than 120 degrees. If Crosby A-1338 cradle grab hooks are used at a minimum angle of choke of 120 degrees, the full sling rated WLL can be utilized.



In shortening applications, a 20% reduction of the Working Load Limit is required except when using the Crosby A-1338 Cradle Grab Hooks, S-1311 Chain Shortener Link, the A-1355 Chain Choker Hook in conjunction with the S-1325 Chain Coupler Link, or the Crosby Eliminator® shortener link. They can be used without any reduction to the Working Load Limit.

APPLICATION AND WARNING INFORMATION  
SECTION 17



**TYPE ESO**



**TYPE ESOS**



**TYPE ESOG**



**TYPE ESOL**



**TYPE ESOF**

Type	Description	Type	Description
ESO	Crosby Eliminator® single chain sling with sling hook	ESOL	Crosby Eliminator® single chain with SHUR-LOC® hook
ESOG	Crosby Eliminator® single chain sling with grab hook	ESOF	Crosby Eliminator® single chain with foundry hook



**TYPE EDO**



**TYPE EDOS**



**TYPE EDOG**



**TYPE EDOL**



**TYPE EDOF**

Type	Description	Type	Description
EDO	Crosby Eliminator® double chain sling with sling hooks	EDOL	Crosby Eliminator® double chain with SHUR-LOC® hooks
EDOG	Crosby Eliminator® double chain sling with grab hooks	EDOF	Crosby Eliminator® double chain with foundry hooks

Type	Description	Type	Description
ETOS	Crosby Eliminator® triple chain sling with master link and sling hooks	EQOS	Crosby Eliminator® quad chain sling with master link and sling hooks
ETOQ	Crosby Eliminator® triple chain sling with master link and grab hooks	EQOG	Crosby Eliminator® quad chain sling with master link and grab hooks
ETOL	Crosby Eliminator® triple chain sling with master link and SHUR-LOC® hooks	EQOL	Crosby Eliminator® quad chain sling with master link and SHUR-LOC® hooks
ETOF	Crosby Eliminator® triple chain sling with master link and foundry hooks	EQOF	Crosby Eliminator® quad chain sling with master link and foundry hooks

Type	Description	Type	Description
ETOS	Crosby Eliminator® triple chain sling with master link and sling hooks	EQOS	Crosby Eliminator® quad chain sling with master link and sling hooks
ETOQ	Crosby Eliminator® triple chain sling with master link and grab hooks	EQOG	Crosby Eliminator® quad chain sling with master link and grab hooks
ETOL	Crosby Eliminator® triple chain sling with master link and SHUR-LOC® hooks	EQOL	Crosby Eliminator® quad chain sling with master link and SHUR-LOC® hooks
ETOF	Crosby Eliminator® triple chain sling with master link and foundry hooks	EQOF	Crosby Eliminator® quad chain sling with master link and foundry hooks

**Spectrum® 10  
Alloy Chain**

- 25% stronger than Grade 80 alloy chain.
- Permanently embossed with CG (Crosby Group) and 10 (Grade).
- Finish - red paint for 6-16mm and black paint for 20-32mm.
- Meets ASTM A973 for Grade 10 chain.
- Proof Tested at 2.5 times the Working Load Limit with certification.

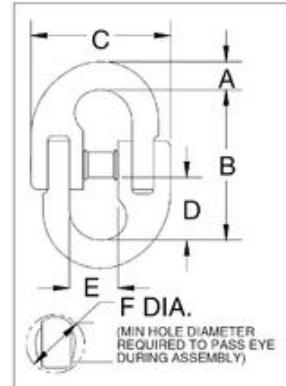
**Grade 100 Alloy Chain** Recommended for overhead lifting applications

Chain Size (mm)	Stock No.	Meters Per Drum / Crate	Working Load Limit (t)	Dimensions (mm)			Breaking Force (kN)	Manufacturing Proof Force (kN)	Weight Per meter (kg/m)
				d nom.	P	w1			
6	1224693	200	1.5	6	18	8.5	58.9	36.8	0.9
7	1210055	200	1.95	7	21	10	77	48	1.2
8	1210076	200	2.6	8	24	11	102	63	1.6
10	1210097	200	4.0	10	30	14	158	98	2.5
13	1210118	150	6.8	13	39	18.8	268	166	4.1
16	1210139	100	10.3	16	48	21.9	402	251	6.2
20	1210060	50	16.0	20	60	27	630	393	9.4
23	1210065	50	21.0	23	69	27.5	831	515	13.0
26	1210070	50	27.1	26	78	35	1062	664	16.4
32	1210075	25	41.0	32	96	41.6	1610	1005	25.8

4:1 Design Factor.

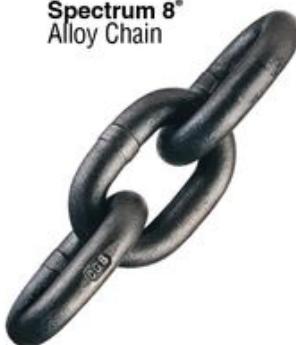
**A-1337**

- Suitable for use with both Grade 80 and Grade 100 chain.
- Individually Proof Tested at 2-1/2 times Working Load Limit with certification.
- Locking system that provides for simple assembly and disassembly - no special tools needed.
- Meets ASTM A-952 standards for Grade 100 chain fittings.
- Forged alloy steel — Quenched & Tempered.
- Sizes 7mm through 26mm are fatigue rated.

**A-1337 LOK-A-LOY® 10 Alloy Connecting Link**
**Crosby 8/10™** **Fatigue Rated™** **QT**

Chain Size		Stock No.	Pkg. Qty.	Weight Each (kg)	Working Load Limit (t)	Dimensions (mm)					
(in)	(mm)					A	B	C	D	E	F
9/32 (1/4)	7	1015104	60	.13	2.0	9.7	49.3	50.8	20.3	17.3	13.5
5/16	8	1015113	50	.19	2.6	9.4	59.9	54.1	25.1	18.3	15.0
3/8	10	1015122	40	.35	4.0	13.0	67.3	64.8	27.7	23.1	18.5
1/2	13	1015136	12	.73	6.8	17.3	87.9	86.1	36.8	28.7	22.6
5/8	16	1015145	10	1.41	10.3	19.8	108.0	101.6	45.0	34.0	30.5
3/4	20	1015154	1	2.90	16.0	25.7	130.6	134.6	54.6	41.7	39.6
7/8	22	1015163	1	3.56	19.4	27.7	138.7	146.8	57.7	50.0	39.4
1	26	1015172	1	5.01	27.1	31.5	150.9	165.1	61.2	56.1	47.8
1-1/4	32	1015181	1	9.53	41.0	39.6	188.7	193.0	78.0	65.3	56.4

4:1 Design Factor.

**Spectrum 8®**  
Alloy Chain

- Finish – black paint.
- Permanently embossed with CG (Crosby Group) and 8 (Grade).
- Proof Tested at 2.5 times the Working Load Limit with certification.
- Meets EN 818-2 for Grade 8 chain.

### Grade 80 Alloy Chain Recommended for overhead lifting applications

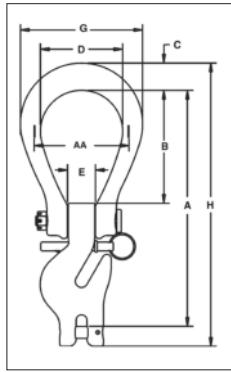
Chain Size (mm)	Stock No.	Meters Per Drum / Crate	Working Load Limit (t)	Dimensions (mm)			Breaking Force (kN)	Manufacturing Proof Force (kN)	Weight Per meter (kg/m)
				d nom.	P	w1			
6	1244915	200	1.1	6	18	8.5	45.2	28.3	0.8
7	1244985	200	1.5	7	21	10	62	38.5	1.1
8	1245055	200	2.0	8	24	11	80.6	50.3	1.4
10	1245125	200	3.2	10	30	14	130	79	2.3
13	1245195	150	5.4	13	39	18.8	214	133	3.8
16	1245265	100	8.2	16	48	21.9	322	201	5.6
19	1245360	50	11.6	19	57	27	457	284	7.8
20	1245364	50	12.8	20	60	25	504	315	9.9
22	1245368	50	15.5	22	66	29.5	610	380	10.6
23	1245372	50	16.0	23	69	32	665	415	11.8
26	1245376	50	21.6	26	78	35	850	531	14.8
32	1245380	50	32.8	32	96	41.6	1300	804	21.6

4:1 Design Factor.

6

### Crosby provides two methods of attaching Spectrum 8® chain to Crosby fittings:

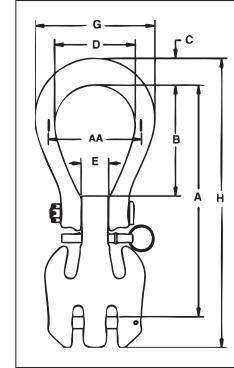


**A-1361**  
Single Hook

- The Crosby Eliminator® combines selected features and functionality of a master link, connecting link, grab hook and adjuster legs to provide you with one fitting that is suitable for applications that require an adjustable length chain sling.
- Forged alloy steel — Quenched & Tempered.
- Innovative two piece design allows for maximum flexibility.
- Individually Proof Tested with certification.
- The Crosby Eliminator, with a properly installed and locked latch pin, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g)(1)(i)(A) and 1926.1501(g)(4)(iv)(B).
- Suitable for use with Grade 100 and Grade 80 chain.
- Engineered to accommodate optional locking pins that can be inserted to lock the shortened chain legs into place.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Use the A-1361 and A-1362 in combination to make 3 leg chain slings.
- Load pin assembly instructions available.

APPLICATION AND WARNING INFORMATION  
SECTION 17**Crosby 8/10™****Fatigue Rated™**

QUIC-CHECK®

**QT****A-1361 Crosby Eliminator® Single Hook**

Chain Size		Frame Size	Working Load Limit (t)	A-1361 Stock No.	L-1361 Stock No.	Weight Each (kg)	Dimensions (mm)								S-4104N Replacement Latch Pin Stock No.
(in)	(mm)						A	B	C	D	E	G	H	AA	
1/4	7	2	2.0	1049797	1049802	1.76	208	99.0	22.9	76.2	23.9	89.0	112	248	1092983
5/16	8	2	2.6	1049804	1049809	1.76	208	99.0	22.9	76.2	23.9	89.0	112	248	1092983
3/8	10	3	4.0	1049813	1049818	2.94	255	122	29.5	88.9	28.7	102	132	306	1092992
1/2	13	4	6.8	1049822	1049827	6.12	327	152	41.4	105	33.3	127	162	395	1093001
5/8	16	5	10.3	1049831	1049836	10.9	388	175	49.8	121	41.4	152	188	472	1093010

4:1 Design Factor. Proof tested at 2.5 times the Working Load Limit.

**A-1362 Crosby Eliminator® Double Hook**

Chain Size		Frame Size	Working Load Limit (t)	A-1362 Stock No.	L-1362 Stock No.	Weight Each (kg)	Dimensions (mm)								S-4104N Replacement Latch Pin Stock No.
(in)	(mm)						A	B	C	D	E	G	H	AA	
1/4	7	2	3.9	1049859	1049913	2.13	208	99.0	22.9	76.2	23.9	89.0	112	257	1092983
5/16	8	2	5.0	1049868	1049922	2.13	208	99.0	22.9	76.2	23.9	89.0	112	257	1092983
3/8	10	3	8.0	1049877	1049931	3.67	255	122	29.5	88.9	28.7	102	132	319	1092992
1/2	13	4	13.6	1049886	1049940	7.84	327	152	41.4	105	33.3	127	162	413	1093001
5/8	16	5	20.5	1049895	1049949	14.3	388	175	49.8	121	41.4	152	188	491	1093010

4:1 Design Factor. Proof tested at 2.5 times the Working Load Limit.

**Using Crosby ELIMINATOR® in 3 and 4 Leg Slings**

Spectrum 10 Chain Size		Master Link A-342 Stock No.	Master Link A-1343 Stock No.	Crosby ELIMINATOR® Single A-1361 Stock No.	Crosby ELIMINATOR® Double A-1362 Stock No.
(in)	(mm)				
1/4	7	1014285	1247051	1049797	1049859
5/16	8	1014319	1247122	1049804	1049868
3/8	10	1014331	1247124	1049813	1049877
1/2	13	1014348	1247087	1049822	1049886
5/8	16	1014365	1247163	1049831	1049895

Use one of either A-342 or A-1343 master link.

Use one of each when making 3-leg sling.

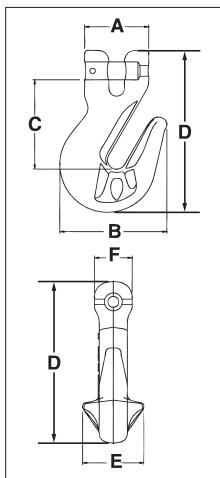
Use two A-1362 fittings when making quad leg sling.

**A-1362**  
Double Hook

## A -1338



- Forged alloy steel — Quenched & Tempered.
- Innovative cradle design allows for 100% efficiency of Grade 100 chain.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby.
- Suitable for use with Grade 100 and Grade 80 chain.
- The use of A-1338 Cradle Grab Hook will allow 100 percent of the chain sling capacity. When used to hook back to chain leg to form a choker, the angle of the choke must be 120 degrees or greater. When used as a chain shortener, minimize twist of chain and ensure chain is fully engaged in hook.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.



## L-1338

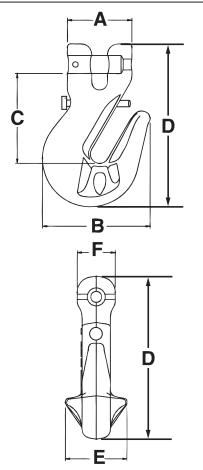


**Crosby 8/10™** **Fatigue Rated™** **QUIC-CHECK®** **QT**

### A/L-1338 Cradle Grab Hook

Chain Size (in)	Working Load Limit (t)	Dimensions (mm)		S-4338 Replacement Latch Kit Stock No.							
		A-1338 Stock No.	L-1338 Stock No.		Weight Each (kg)	A	B	C	D	E	F
1/4	2.0	1049417	1049480	.20	43.7	64.5	55.9	98.5	38.1	22.4	1048426
5/16	2.6	1049426	1049489	.45	43.7	64.5	55.4	98.5	38.1	22.4	1048426
3/8	4.0	1049435	1049498	.82	47.0	78.5	65.5	119	46.5	27.7	1048435
1/2	6.8	1049444	1049507	1.78	60.7	97.3	83.3	149	57.2	36.1	1048444
5/8	10.3	1049453	1049516	3.18	67.8	115	97.8	179	74.5	44.5	1048453

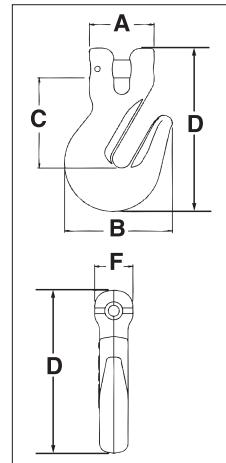
4:1 Design Factor.



## A -1358



- Forged alloy steel — Quenched & Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.



## L -1358

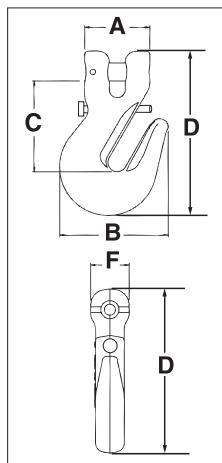


**Crosby 8/10™** **Fatigue Rated™** **QUIC-CHECK®** **QT**

### A/L-1358 Grab Hook

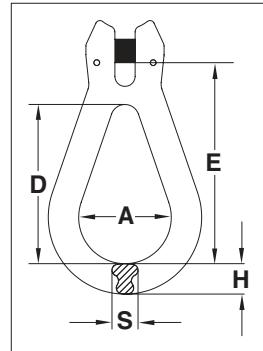
Chain Size (in)	Working Load Limit (t)	Dimensions (mm)		S-4338 Replacement Latch Kit Stock No.						
		A-1358 Stock No.	L-1358 Stock No.		Weight Each (kg)	A	B	C	D	F
1/4	2.0	1049610	1049605	.20	43.7	64.5	55.9	98.5	22.4	1048426
5/16	2.6	1049629	1049614	.45	43.7	64.5	55.4	98.5	22.4	1048426
3/8	4.0	1049638	1049623	.82	47.0	78.5	65.5	119	27.7	1048435
1/2	6.8	1049647	1049634	1.78	60.7	97.3	83.3	149	36.1	1048444
5/8	10.3	1049656	1049643	3.18	67.8	115	97.8	179	44.5	1048453

4:1 Design Factor.



**A-1370**

- Forged alloy steel — Quenched & Tempered.
- Individually proof tested to 2.5 times the Working Load Limit.
- Proof test certification shipped with each link.
- Each link has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby in raised letters.
- Suitable for use with Grade 100 and Grade 80 chain.

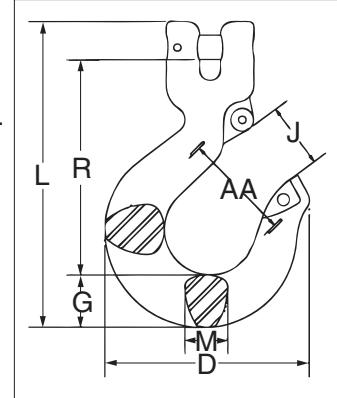

**Crosby 8/10™** QT
**A-1370 Reaving Link**

Chain Size		Working Load Limit (t)	Stock No.	Weight Each (kg)	Dimensions (mm)				
(in)	(mm)				A	D	E	H	S
1/4-5/16	7-8	2.5	1012000	0.26	39.0	67.5	90.0	16.0	10.0
3/8	10	4.0	1012009	0.50	49.0	85.5	108	17.0	14.0
1/2	13	6.8	1012018	1.10	62.5	108	138	21.0	18.0
5/8	16	10.3	1012027	2.55	79.0	139	180	30.5	25.5

4:1 Design Factor.

**L-1339**

- Forged alloy steel — Quenched & Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby.
- Hoist hooks incorporate QUIC-CHECK® deformation and angle indicators.
- Low profile hook tip.
- New integrated latch (S-4320/S-4339) meets the world standard for lifting.
  - Heavy duty stamped latch interlocks with the hook tip.
  - High cycle, long life spring.
  - When secured with the proper cotter pin through the hole in the tip of hook, meets the intent of OSHA Rule 1926.1431(g) and 1926.1501(g) for personnel lifting.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.

**L-1339 Clevis Sling Hook**

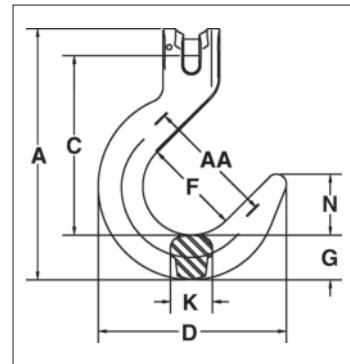
Chain Size		Working Load Limit (t)	Hook ID Code	Stock No.	Weight Each (kg)	Dimensions (mm)							S-4320 Repl. Latch Stock No.	S-4339 Repl. Latch Stock No.
(in)	(mm)					D	G	J	L	M	R	AA		
-	6	1.5	DA	1049103	0.29	72.6	18.5	23.6	107	16.0	74.9	38.1	1096325	-
1/4	7	2.0	HA	1049112	0.72	98.0	26.4	30.2	144	19.1	101	50.8	1096468	-
5/16	8	2.6	HA	1049121	0.71	98.0	26.4	30.2	144	19.1	100	50.8	1096468	-
3/8	10	4.0	IA	1049130	1.17	111	30.2	38.9	171	25.4	120	63.5	1096515	-
1/2	13	6.8	JA	1049149	2.39	142	36.6	45.2	213	29.7	150	76.2	1096562	-
5/8	16	10.3	KA	1049158	4.45	172	48.0	61.2	259	36.6	177	102	1096609	-
3/4	18-20	16.0	KHX19	1049167	8.30	211	71.9	68.3	332	50.0	203	114	-	1048714
7/8*	22-23*	21.0	KHX23	1049176	11.2	233	78.0	77.5	355	50.0	223	127	-	1048732

4:1 Design Factor.

\*7/8 in (22-23 mm) size does not have cam, latch attaches to unique pin.

**A-1359**


- Forged alloy steel — Quenched & Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Hook can be tip loaded at the reduced Working Load Limit, see below.
- Operator must ensure the load is retained properly in the hook.


**A-1359 Clevis Foundry Hook**

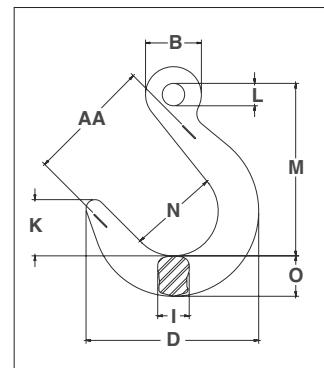
Chain Size		Stock No.	Working Load Limit at Saddle of Hook (t)	Working Load Limit at Tip of Hook (t)	Weight Each (kg)	Dimensions (mm)								Deformation Indicators AA
(in)	(mm)					A	C	D	F	G	K	N	T	
1/4	7	1049907	2.0	1.0	0.98	159.0	111.3	122.4	63.5	28.7	22.4	39.9	88.9	
5/16	8	1049911	2.6	1.3	0.93	159.0	111.0	122.4	63.5	28.7	22.4	39.9	88.9	
3/8	10	1049916	4.0	2.0	1.95	197.1	140.7	147.8	76.2	35.1	33.0	47.8	101.6	
1/2	13	1049925	6.8	3.4	3.62	238.3	169.4	178.8	88.9	41.4	38.1	57.2	114.3	
5/8	16	1049934	10.3	5.1	6.44	285.8	195.1	207.5	101.6	55.6	44.5	64.3	127.0	
3/4	18-20	1049943	16.0	8.0	11.2	366.5	248.7	245.1	127.0	61.0	55.9	86.1	152.4	
7/8	22-23	1049952	21.0	10.0	19.9	412.8	279.9	280.2	139.7	78.0	69.1	95.0	165.1	

4:1 Design Factor.

QUIC-CHECK®

**A-1329**


- Forged alloy steel — Quenched & Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Hook can be tip loaded at the reduced Working Load Limit, see below.
- Operator must ensure the load is retained properly in the hook.

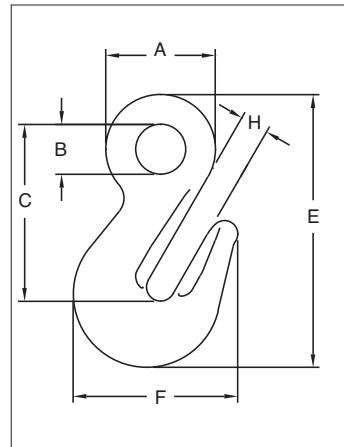

**A-1329 Eye Foundry Hook**

Chain Size		Stock No.	Working Load Limit at Saddle of Hook (t)	Working Load Limit at Tip of Hook (t)	Weight Each (kg)	Dimensions (mm)								Deformation Indicators AA
(in)	(mm)					B	D	I	K	L	M	N	O	
1/4 - 5/16	7-8	1026280	2.6	1.3	.91	39.6	122.4	22.4	39.9	16.0	122.2	63.5	28.7	89
3/8	10	1026289	4.0	2.0	1.72	52.6	147.8	33.0	47.8	20.6	139.7	76.2	35.1	102
1/2	13	1026297	6.8	3.4	3.27	64.3	178.8	38.1	57.2	26.2	180.6	88.9	41.4	114
5/8	16	1026306	10.3	5.1	5.58	76.2	207.5	44.5	64.3	31.8	202.2	101.6	55.6	127
3/4	18-20	1026315	16.0	8.0	10.4	104.9	245.1	55.9	86.1	50.0	273.1	127.0	61.0	165
7/8	22-23	1026324	21.0	10.0	18.4	121.2	280.2	69.1	95.0	57.9	311.2	139.7	78.0	178
1	26	1026333	27.1	13.5	23.5	135.4	302.3	71.9	99.8	65.0	339.6	152.4	84.1	191
1 1/4	32	1026342	41.0	20.5	38.3	167.9	336.6	88.9	110.0	80.0	387.4	165.1	97.5	203

4:1 Design Factor.

**A-1328**

- Forged alloy steel — Quenched & Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.

**Crosby 8/10™****Fatigue Rated**

QUIC-CHECK®

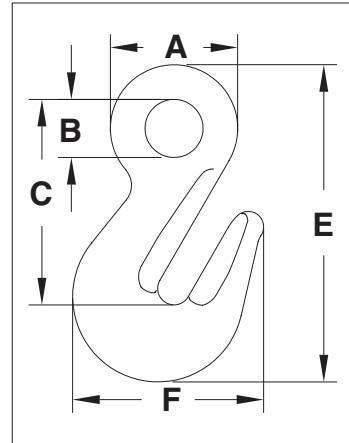
**QT**  
QUICK TEST**A-1328 Eye Grab Hook**

Chain Size		Working Load Limit (t)	Stock No.	Weight Each (kg)	Dimensions (mm)					
(in)	(mm)				A	B	C	E	F	H
1/4 - 5/16	7 - 8	2.6	1026169	.44	44.5	19.1	70.9	109	66.3	11.2
3/8	10	4	1026187	.73	52.3	23.9	84.6	130	78.5	13.5
1/2	13	6.8	1026196	1.50	65.0	28.4	104	162	97.3	16.8
5/8	16	10.3	1026205	2.72	78.0	33.3	125	194	115	20.0
3/4	19-20	16	1026214	4.54	82.6	38.1	137	223	152	23.9
7/8	22-23	20	1026223	5.94	100	46.0	165	257	166	27.7
1	26	27.1	1026232	8.57	113	50.8	183	291	197	30.2
1 1/4	32	41	1026241	17.9	143	60.5	231	371	241	38.1

4:1 Design Factor.

**A-1348**

- Forged alloy steel — Quenched & Tempered.
- The use of A-1348 Cradle Grab Hook will allow 100% percent of the chain sling capacity. When used to hook back to chain leg to form a choker, the angle of the choke must be 120 degrees or greater. When used as a chain shortener, minimize twist of chain and ensure chain is fully engaged in hook.
- Innovative cradle design allows for 100% efficiency of Grade 100 chain.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby in raised letters.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.

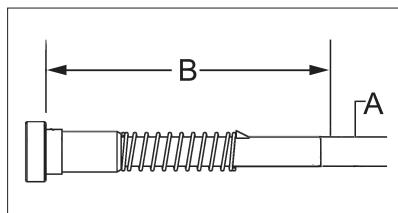
**Crosby 8/10™****QT**  
QUICK TEST**A-1348 Eye Cradle Grab Hook**

Chain Size		Working Load Limit (t)	Stock No.	Weight Each (kg)	Dimensions (mm)				
(in)	(mm)				A	B	C	E	F
1/4-5/16	7-8	2.5	1026200	0.35	36.3	16.5	64.0	98.2	58.2
3/8	10	4.0	1026209	0.64	49.5	26.0	78.0	120	68.8
1/2	13	6.8	1026218	0.87	62.0	29.0	97.0	146	82.4
5/8	16	10.3	1026227	2.83	79.0	36.0	126.5	196	111.8

4:1 Design Factor.



- Latch Kits shipped unassembled and individually packaged with instructions.
- For use only with Crosby L-1338 and L-1358 Grab Hooks.



### S-4338 Grab Hook Latch Kits

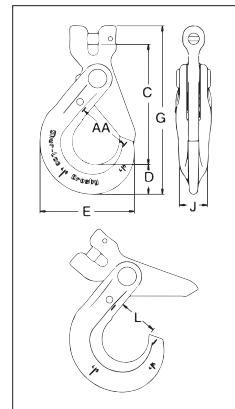
Hook Size		Stock No.	Weight Each (kg)	Dimensions (mm)	
(in)	(mm)			A	B
1/4	7	1048426	.01	4.7	40.4
5/16	8				
3/8	10	1048435	.01	4.7	45.2
1/2	13	1048444	.02	6.3	57.2
5/8	16	1048453	.03	7.9	65.2

APPLICATION AND WARNING INFORMATION SECTION 17

**S-1317**



- Forged alloy steel — Quenched & Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Recessed trigger design is flush with the hook body, protecting the trigger from potential damage.
  - Easy to operate with enlarged thumb access.
- Positive Lock Latch is self-locking when hook is loaded.
- Eye style is designed with engineered flat to connect to S-1325 chain coupler.
- Suitable for use with Grade 100 and Grade 80 chain.
- The SHUR-LOC® hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g) (1)(i)(A) and 1926.1501(g)(4)(iv)(B).
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.



**Crosby 8/10™** **Fellings Rated™**

QUIC-CHECK®

**QT**

APPLICATION AND WARNING INFORMATION SECTION 17

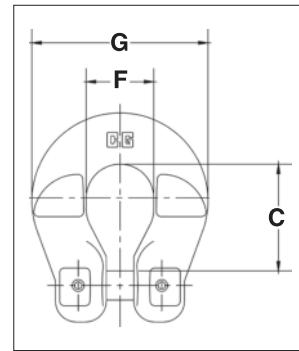
### S-1317 Clevis Hook

Chain Size		Working Load Limit (t)	Stock No.	Weight Each (kg)	Dimensions (mm)						
(in)	(mm)				C	D	E	G	J	L	AA
-	6	1.5	1028991	.35	87.4	20.1	66.0	121	16.0	29.0	38.1
1/4	7	2.0	1029000	.82	114	27.9	89.0	159	20.6	35.1	51.0
5/16	8	2.6	1029009	.82	114	27.9	89.0	159	20.6	35.1	51.0
3/8	10	4.0	1029018	1.66	140	29.7	112	192	24.1	46.5	63.5
1/2	13	6.8	1029027	3.08	173	42.4	139	242	29.5	56.4	76.2
5/8	16	10.3	1029036	5.40	209	51.8	167	295	38.1	67.3	89.0
3/4	18-20	16.0	1029071	6.80	239	56.4	197	336	51.6	89.4	-
7/8	22	20.0	1029080	12.7	283	62.2	222	392	55.9	97.3	-
1	26	27.1	1029089	22.5	319	81.5	251	468	68.1	104	-

4:1 Design Factor.

**S-1325A**

- Forged alloy steel — Quenched & Tempered.
- Designed to connect Grade 100 chain fittings produced with engineered flat to Grade 100 chain.
- Suitable for use with Grade 100 and Grade 80 chain.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Locking system that provides for simple assembly and disassembly – no special tools required.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.

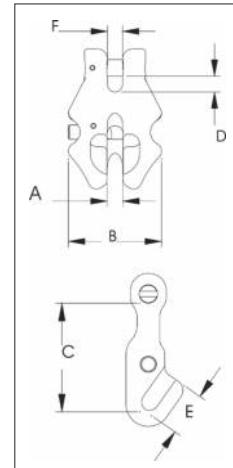
**Crosby 8/10™****Fatigue Rated™****QT****S-1325A Grade 100 Chain Coupler**

Chain Size		Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)		
(in)	(mm)				C	F	G
-	6	1098496	1.5	.11	26.2	19.3	44.7
1/4	7	1098500	2	.23	35.8	22.4	59.0
5/16	8	1098504	2.5	.23	35.6	22.4	59.0
3/8	10	1098508	4	.34	46.7	30.0	69.0
1/2	13	1098512	6.8	.75	55.6	38.1	94.5
5/8	16	1098516	10.3	.86	71.4	49.8	112

4:1 Design Factor.

**S-1311N**

- Forged alloy steel - Quenched & Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Suitable for use with Grade 100 and Grade 80 chain.
- Spring loaded chain locking system keeps chain in place under slack conditions.
- The use of S-1311N Chain Shortener will allow 100 percent of the chain sling capacity.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.

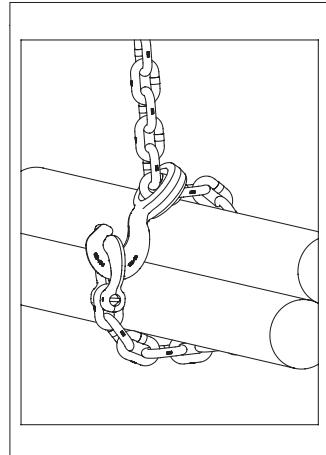
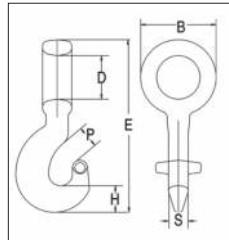
**Crosby 8/10™****Fatigue Rated™****QT****S-1311N Grade 100 Chain Shortener Link**

Chain Size		Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)					
(in)	(mm)				A	B	C	D	E	F
-	6	1017860	1.5	.34	7.61	44.7	46.5	7.37	19.3	7.37
1/4	7	1017869	2.0	.45	8.64	51.8	55.1	8.64	22.4	8.38
5/16	8	1017878	2.6	.45	10.2	59.9	64.3	9.91	25.7	9.65
3/8	10	1017897	4.0	.68	12.2	72.1	78.0	12.2	31.2	11.7
1/2	13	1017906	6.8	1.47	15.7	90.4	95.8	15.5	39.9	15.0
5/8	16	1017915	10.3	2.54	18.5	108	118	18.5	48.5	17.8

4:1 Design Factor.

**A-1355**


- Forged alloy steel - Quenched & Tempered.
- Individually Proof Tested with certification.
- Rated for Grade 100 chain in choker applications.
- Each hook has a Product Identification Code (PIC) for material traceability,
- along with the size and the name Crosby.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- For use with S-1325 Chain Coupler Link.

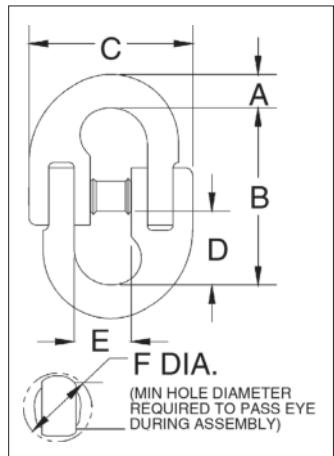

**Crosby 8/10™**
*Fatigue Rated*
**QT**
**6**
**A-1355 Chain Choker Hook**


Grade 10 Alloy Chain Size		Working Load Limit (t)	Stock No.	Weight Each (kg)	Dimensions (mm)					
(in)	(mm)				B	D	E	H	P	S
1/4-5/16	7-8	2.6	1015204	.34	52.1	30.0	123	20.1	17.5	16.5
3/8	10	4.0	1015213	.74	67.6	39.9	154	23.6	23.6	17.5
1/2	13	6.8	1015222	1.42	85.1	51.6	193	30.0	32.0	23.8
5/8	16	10.3	1015231	3.16	107	64.0	246	39.1	28.4	30.0

4:1 Design Factor.

**A-336**


- Forged alloy steel - Quenched & Tempered.
- Individually Proof Tested at 2-1/2 times the Working Load Limit with certification.
- The Working Load Limit of the A-336 is less than Grade 80 chain ratings. When using in Grade 80 chain slings, ASME B30.9c requires that the Working Load Limit of a sling must not exceed the lowest Working Load Limit of the components in the system.


**QT**

APPLICATION AND WARNING INFORMATION SECTION 17

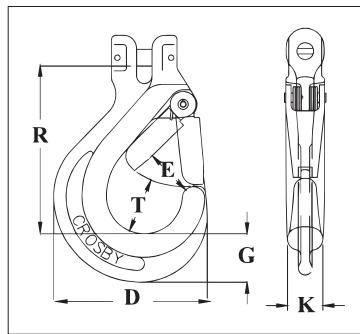
**A-336 LOK-A-LOY® 6 Connecting Link**

Chain Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)					Diameter of Hole to Accept Link (mm)
				A	B	C	D	E	
6-7	1014397	1.47	.11	7.85	52.5	42.9	19.8	19.8	12.7
8-10	1014413	3.00	.27	11.4	69.0	58.5	26.9	27.7	16.8
13	1014431	5.10	.54	14.7	85.0	80.5	32.5	35.8	22.4
16	1014459	7.48	1.10	19.8	99.5	100	39.6	42.9	26.9
19	1014477	10.45	1.76	22.6	123	113	50.0	51.0	30.2
22	1014495	13.04	2.75	25.4	148	135	60.5	64.0	35.1
26	1014510	17.58	3.19	27.4	165	154	72.0	65.0	37.3
32	1014538	26.00	6.00	35.1	215	194	96.0	96.0	44.0

4:1 Design Factor.

**S-314A**

- Forged alloy steel - Quenched & Tempered.
- Individually Proof Tested at 2-1/2 times the Working Load Limit with certification.
- Integrated heavy duty latch.
- Meets ASTM A-952 for Grade 80 chain fittings.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.

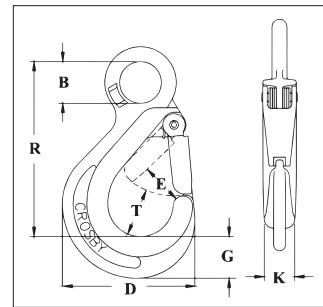
**Fatigue Rated****QT**  
QUENCHED & TEMPERED**S-314A Clevis Chain Hook with Integrated Latch**

Chain Size		Stock No.	Grade 8 Alloy Chain Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)						Replacement Latch Stock No.
(in)	(mm)				D	E	G	K	R	T	
-	6	1225020	1.12	.32	66.0	20.6	20.0	16.0	72.3	26.0	1291332
1/4 - 5/16	7 - 8	1225021	2	.70	89.0	27.4	28.0	20.5	98.0	32.6	1291402
3/8	10	1225091	3.15	1.29	110.5	36.1	29.3	24.0	125.3	42.2	1291472
1/2	13	1225161	5.3	2.34	138.5	38.6	42.1	29.5	144.5	49.2	1291542
5/8	16	1225162	8	3.67	166.5	48.5	52.0	38.0	172.6	58.9	1291612

4:1 Design Factor.

**S-315A**

- Forged alloy steel - Quenched & Tempered.
- Individually Proof Tested at 2-1/2 times the Working Load Limit with certification.
- Crosby recommends grinding the WLL (which is 5:1 Design Factor) off the hook when using with Grade 80 chain.
- Integrated heavy duty latch.
- Engineered flat for use with S-1325A Coupler Link.
- Meets ASTM A-952 for Grade 80 chain fittings.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.

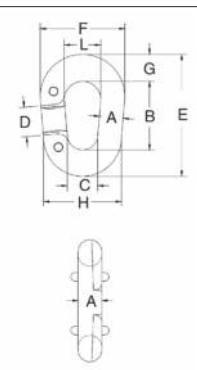
**S-315A Eye Chain Hook with Integrated Latch****Fatigue Rated****QT**  
QUENCHED & TEMPERED

Chain Size		Stock No.	Grade 8 Alloy Chain Working Load Limit (t)	Working Load Limit for Wire Rope (short Tons)	Weight Each (kg)	Dimensions (mm)						Replacement Latch Stock No.
(in)	(mm)					B	D	E	G	K	R	
-	6	1029820	1.12	1	.25	20.1	66.0	20.6	20.1	16.0	84.5	25.9
1/4 - 5/16	7 - 8	1029825	2	2	.59	27.9	89.0	27.4	27.9	20.6	117	32.5
3/8	10	1029830	3.15	3	1.18	36.1	110	36.1	29.5	23.9	157	42.2
1/2	13	1029835	5.3	5	2.13	46.0	138	38.6	42.4	29.5	186	49.3
5/8	16	1029840	8	7	3.88	56.0	167	48.5	52.0	38.1	227	59.0

4:1 Design Factor for Grade 80 Alloy Chain, 5:1 Design Factor for wire rope.

**G-334**

- Forged steel - Quenched & Tempered.
- Has larger inside dimensions making it easier to attach hooks or other fittings to the chain.
- An exclusive Crosby product.
- After making connections, rivets must be peened.
- Not suitable for use with Grade 80 or Grade 100 chain and chain slings used in overhead lifting.

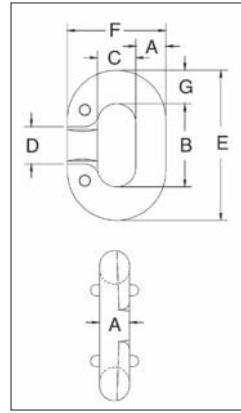
**G-334 Pear Shape "Missing Link"® Replacement Links****QT**  
QUENCHED & TEMPERED

Chain Size (mm)	Stock No.	Working Load Limit (t)	Weight Per 100 (kg)	Dimensions (mm)							
				A	B	C	D	E	F	G	H
10	1013432	.84	11.3	10.4	51.0	14.2	20.6	74.5	41.4	11.9	35.1
13	1013450	1.50	22.7	12.7	63.5	17.5	25.4	92.0	51.0	14.2	42.9
16	1013478	2.27	34.0	16.0	70.0	20.6	26.9	102	60.5	16.0	52.5
19	1013496	3.22	56.7	19.1	79.5	25.4	28.7	121	70.0	20.6	63.5
22	1013511	4.35	90.7	22.4	93.5	31.8	35.1	141	82.5	23.9	76.0

4:1 Design Factor.

**G-335**


- Forged steel - Quenched & Tempered.
- Integral rivets join the two halves.
- After making connections, rivets must be peened.
- All sizes have countersunk rivet holes.
- Meets or exceeds the performance requirements of Federal Specifications RR-C-271G, Type II, except for those provisions required of the contractor.
- Not suitable for use with Grade 80 or Grade 100 chain and chain slings used in overhead lifting.

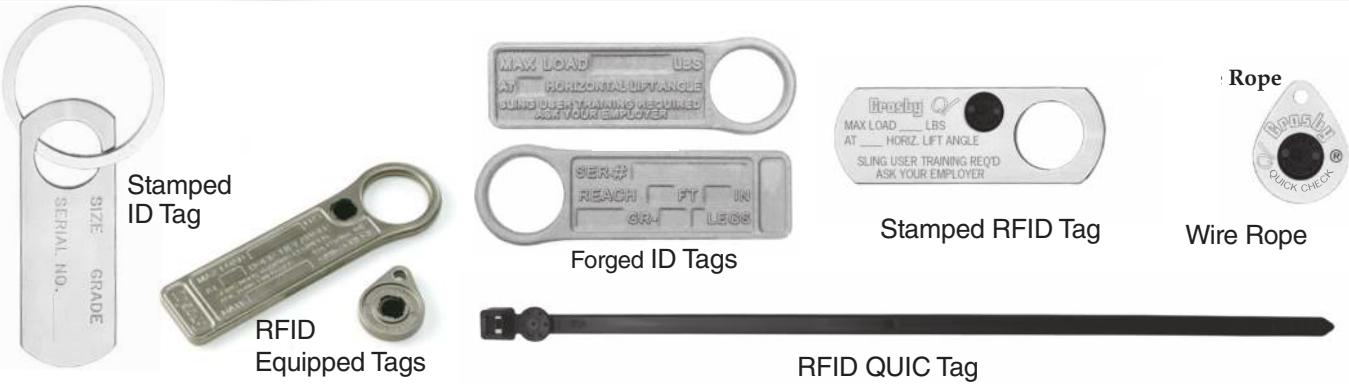


### G-335 "Missing Link"® Replacement Links

Chain Size (in)	Stock No.	Working Load Limit (t)	Links Per Box	Weight Per 100 (kg)	Dimensions (mm)						
					A	B	C	D	E	F	G
*7	1013110	.60	10	2.83	7.10	22.4	11.2	11.2	38.1	25.4	7.85
*8	1013138	.89	10	5.67	8.65	23.9	11.9	11.9	42.9	29.5	9.65
10	1013156	1.25	10	9.07	10.4	28.7	14.2	14.2	52.5	35.1	11.9
11	1013174	1.65	10	12.5	11.9	32.5	15.0	15.0	59.5	38.9	13.5
13	1013192	2.15	10	17.0	13.5	37.3	16.8	16.8	67.5	43.7	15.0
16	1013236	3.30	10	32.9	16.8	46.0	19.8	20.6	84.0	53.0	19.1
19	1013254	4.65	10	55.5	19.8	54.0	23.9	26.9	98.5	63.5	22.4
22	1013272	5.45	Bulk	79.5	23.1	63.5	28.7	28.7	114	74.5	25.4
† 26	1013290	7.00	Bulk	113	26.2	70.0	31.8	31.8	127	84.0	28.7

4:1 Design Factor. \*Rivets Only - No interlocking lugs. †Has reinforced rivet holes.

### SLING IDENTIFICATION TAG KITS



#### Stamped ID Tags

- Stamped ID Tags
- Octagonal metal sling tag.
- Pre-stamped - easy to add sling length, Working Load
- Limit, name, etc.
- Front side is shown - reverse is blank.
- Available with or without welded attached ring.
- Attaching ring size is 5mm x 50mm.
- Available completely blank for wire rope sling applications.
- Gold painted.

#### ID Tags

- Heavy Duty tags.
- 33 mm diameter ring opening (will fit 6mm - 16mm A-1337).
- Chain tags meet requirements of ASME B30.9 for Sling Identification.
- Raised edge and recessed pads to protect lettering.
- Raised lettering for quick reference.

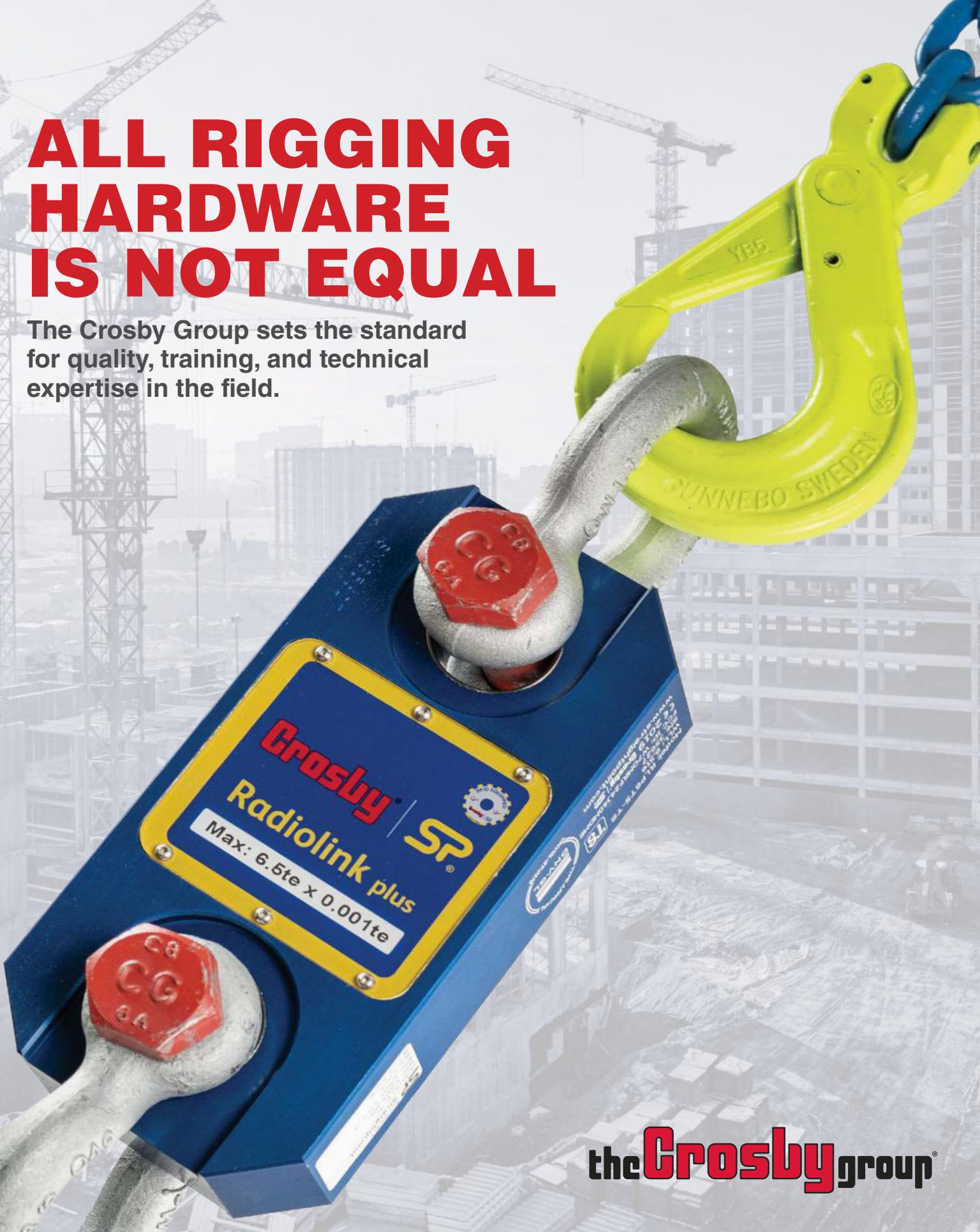
Operating Frequency: 13.5MHz

Stock No.	Style	Material Type	RFID Equipped	Tag Size (mm)	Weight Each (kg)
115369	Chain	Cast Stainless Steel	Yes	160 x 42	.21
115350	Wire Rope	Cast Stainless Steel	Yes	43 x 33.3	.03
115217	Chain	Forged Steel	No	146 x 48	.18
115353	Chain	Stamped Zinc Plated Steel	Yes	5-3/4 x 1-5/8	.29
115355	Wire Rope	Stamped Zinc Plated Steel	Yes	1-11/16 x 1-5/16	.04
1224692	Zip Tie	High Crystalline Polyamide	Yes	193.675	1.4

ID Tag Stock No.	Carton Qty.	Weight Per Carton (kg)
115244	50	10.55

# ALL RIGGING HARDWARE IS NOT EQUAL

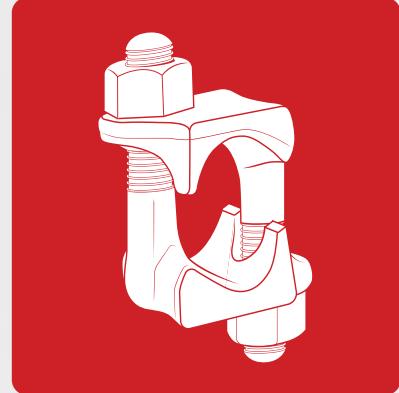
The Crosby Group sets the standard for quality, training, and technical expertise in the field.



the **Crosby** group®

# WIRE ROPE END FITTINGS

A full line of forged fittings and accessories for wire rope applications.



theCrosbygroup®

[thecrosbygroup.com](http://thecrosbygroup.com)

## WIRE ROPE END FITTINGS

### FORGED FOR CRITICAL APPLICATIONS

The proper performance of forged clips depends on proper manufacturing practices that include good forging techniques and accurate machining. Forged clips provide a greater rope bearing surface and more consistent strength than malleable cast iron clips. Fist Grip clips provide a saddle for both the "live" and the "dead" end. Fewer forged clips are required for each termination than with malleable cast iron clips. Forged clips reduce the possibility of hidden defects that are sometimes present in malleable cast iron clips. Malleable cast iron clips should only be used in non-critical applications. ASME, OSHA, and ASTM recommend only forged clips for critical applications.

#### Questions to ask your rigging provider

*Is the clip forged?*

*Is an adequate cradle provided in the clip base for the wire rope?*

Malleable cast iron clips are sometimes improperly used as replacements for forged clips.

#### Why choose Crosby

Crosby provides forged "Red" U-Bolt® Clips and forged Fist Grip clips which meet or exceed Federal Specification Number FF-C-450E and are considered the industry standard.

### FULL LINE

The proper application of forged clips requires that the correct type, size, number, and installation instructions be used (See APPLICATION INFORMATION below for more information). Availability of a full range of sizes of forged U-bolt clips and forged Fist Grip clips are essential for design flexibility.

#### Questions to ask your rigging provider

*Do they have both Fist Grip and U-bolt clips available?*

*Do they have a full range of forged wire rope clip sizes?*

Malleable No competitor has the full line of forged U-bolt clips and Fist Grip clips that Crosby has.

#### Why choose Crosby

Only Crosby provides forged "Red" U-bolt® Clips from 3mm to 90mm and forged Fist Grip clips from 5mm to 140mm.

\* The 3-1/2" base is a steel casting.

### IDENTIFICATION

The clip's size, manufacturer's logo, and a traceability code should be clearly embossed in the forging of the clip. These three elements are essential in developing total confidence in the product.

#### Questions to ask your rigging provider

*Is the manufacturer's name and size of clip clearly marked?*

*Do they have a traceability system that is actively used in the manufacturing process?*

Most do not have a traceability system.

#### Why choose Crosby

Crosby clearly embosses its logo, the size, and the Product Identification Code (PIC) into all Crosby "Red" U-bolt® Clip bases and Fist Grip clips. Crosby's traceability system is actively used throughout the manufacturing of forged clips. The material analysis for each heat of steel is verified within our own laboratory.

### APPLICATION INFORMATION

Detailed application information will assist you in the proper installation of wire rope clips. This information is most effective when provided at the point of application, as well as in supporting brochures and engineering information. The manufacturer must provide this specific information. Generic information will not provide all the needed application instructions. A formal application and warning system that attracts the attention of the user, clearly informs the user of the factors involved in the task, and informs the user with the proper application procedures as needed.

#### Questions to ask your rigging provider

*Does each clip have the application and warning information?*

Most competitors do not have application and warnings information with each clip.

#### Why choose Crosby

Crosby provides detailed application and warning information for all forged clips. Each clip is individually bagged or tagged with the application and warning information. Testing and evaluation of special applications can be performed upon special request.

## CROSBY VALUE ADDED

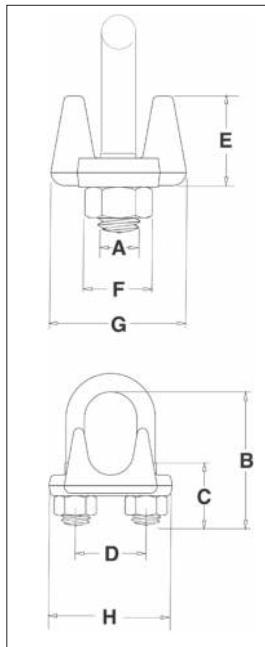
- Full line:** Crosby provides both forged Red U-Bolt Clips and forged Fist Grip Clips.
- Forged:** Crosby Red U-Bolt Clips have forged bases on all sizes, except 70mm and 89mm base is a steel casting. The entire clip is galvanized to resist corrosive and rusting action. Clip sizes 3mm through 40mm have U-Bolts with rolled threads which enhance the strength of the material and fatigue properties.
- Forged:** Fist Grip Clips are forged, and the entire clip is galvanized. The double saddle design eliminates the possibility of incorrect installation. Designed as an integral part of the clip, the bolts are opposite one another (see G-429 example below). As result, the nuts can be installed in such a way as to enable the operator to swing the wrench in a full arc for ease of installation.
- Application information:** Application and warning information is available for both Crosby Red U-Bolt Clips and Fist Grip Clips. The Crosby Warning System is designed to attract the attention of the user, clearly inform the user of the factors involved in the task, and provide the user with proper application procedures. Each Crosby Red U-Bolt Clip and Fist Grip Clip is either bagged or tagged with appropriate application and warning information, thus ensuring that the information is available at the point of application for each and every clip during installation.
- Material analysis:** Crosby can provide certified material (mill) analysis for each production lot, traceable by the Product Identification Code (PIC). Crosby, through its own laboratory, verifies the analysis of each heat of steel.
- Testing:** Crosby periodically audits the termination efficiencies of the Red U-Bolt Clips and Fist Grip Clips. Upon special request, Crosby will determine the efficiencies of clip assemblies when applied to special rope constructions and special applications.

**G-450****G-429****S-421T****S-423T****G-416****G-417****S-409****S-505****S-501****S-502****G-411**

**G-450**  
Red U-Bolt® Clip



- Each base has a Product Identification Code (PIC) for material traceability, the name Crosby or "CG," and a size forged into it.
- Based on the catalog breaking strength of wire rope, Crosby wire rope clips have an efficiency rating of 80% for 3mm through 22mm sizes, and 90% for sizes 24mm through 90mm.
- Entire clip is galvanized to resist corrosive and rusting action.
- Sizes 3mm through 62mm and 75mm have forged bases.
- All clips are individually bagged or tagged with proper application instructions and warning information.
- Clip sizes up through 38mm have rolled threads.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these wire rope clips meet other critical performance requirements, including fatigue life, impact properties, and material traceability not addressed by ASME B30.26.
- Look for the Red U-Bolt®, your assurance of genuine Crosby Clips.



### G-450 Crosby Clips

APPLICATION AND WARNING INFORMATION  
SECTION 17

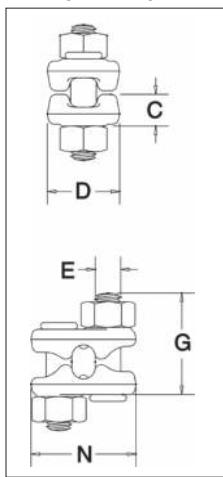
Rope Size		Stock No.	Std. Package Qty.	Weight Per 100 (kg)	Dimensions (mm)							
(in)	(mm)				A	B	C	D	E	F	G	H
1/8	3-4*	1010015	100	2.72	5.60	18.3	11.2	11.9	10.4	9.65	20.6	23.9
3/16*	5*	1010033	100	4.54	6.35	24.6	14.2	15.0	12.7	11.2	23.9	29.5
1/4	6-7	1010051	100	8.62	7.85	26.2	12.7	19.1	16.8	14.2	30.2	36.6
5/16	8	1010079	100	12.7	9.65	35.1	19.1	22.4	18.3	17.5	33.3	42.9
3/8	9-10	1010097	100	21.8	11.2	38.1	19.1	25.4	23.1	19.1	41.4	49.3
7/16 - 1/2	11-13	1010131	50	.50	1.88	1.00	1.19	1.13	.88	1.91	2.28	
9/16 - 5/8	14-16	1010177	50	110	.56	2.25	1.25	1.31	1.34	.94	2.06	2.50
3/4	18-20	1010195	25	64	15.7	70.0	36.6	38.1	35.8	26.9	57.0	72.0
7/8	22	1010211	25	96	19.1	79.0	41.1	44.5	40.4	31.8	62.0	80.5
1	24-26	1010239	10	114	19.1	89.0	46.0	47.8	45.2	31.8	67.0	88.0
1-1/8	28-30	1010257	10	128	19.1	98.5	51.0	51.0	48.5	31.8	71.5	91.0
1-1/4	32-34	1010275	10	199	22.4	108	54.0	59.4	55.5	36.6	79.5	105
1-3/8	36	1010293	10	200	22.4	118	58.5	59.4	58.5	36.6	79.5	106
1-1/2	38	1010319	10	247	22.4	125	60.5	66.5	62.0	36.6	86.5	113
1-5/8	41-42	1010337	Bulk	319	25.4	135	66.5	70.0	67.5	41.4	92.0	121
1-3/4	44-46	1010355	Bulk	424	28.7	146	70.0	77.5	74.5	46.0	97.0	134
2	48-52	1010373	Bulk	590	31.8	164	76.0	86.0	77.0	51.0	113	149
2-1/4	56-58	1010391	Bulk	726	31.8	181	81.0	98.5	81.0	51.0	114	162
2-1/2	62-65	1010417	Bulk	862	31.8	195	87.5	105	93.5	51.0	119	168
** 2-3/4	** 68-72	1010435	Bulk	1043	31.8	211	90.5	111	124	51.0	127	175
3	75-78	1010453	Bulk	1406	38.1	233	98.5	121	119	60.5	149	194
** 3-1/2	** 85-90	1010462	Bulk	1814	38.1	273	114	140	152	60.5	157	213

\*Electro-plated U-Bolt and Nuts. \*\* 70mm and 89mm base is made of cast steel.

**G-429**

 Fist Grip® Clip  
 5mm - 16mm


5mm - 16mm



- Entire clip is galvanized to resist corrosive and rusting action.
- Based on the catalog breaking strength of wire rope, Crosby wire rope clips have an efficiency rating of 80% for 5mm through 22mm sizes, and 90% for sizes 24mm through 40mm.
- Bolts are an integral part of the saddle. Nuts can be installed in such a way as to enable the operator to swing the wrench in a full arc for fast installation.
- All sizes have forged steel saddles.
- All Clips are individually bagged or tagged with proper application instructions and warning information.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these wire rope clips meet other critical performance requirements, including fatigue life, impact properties, and material traceability not addressed by ASME B30.26.
- Assembled with standard heavy hex nuts.

### G-429 Fist Grip® Clips

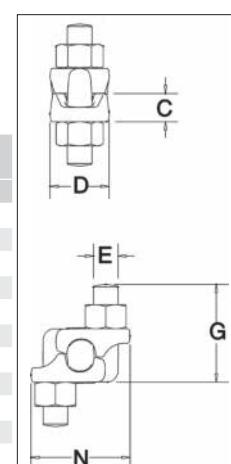
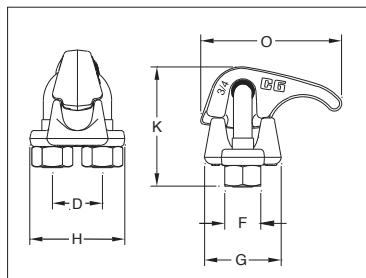
Rope Size (in)*	(mm)	Stock No.	Std. Package Qty.	Weight Per 100 (kg)	Dimensions (mm)				
					C	D	E	G	N
3/16 - 1/4	5-7	1010471	100	10.4	10.2	23.9	9.65	32.5	36.6
5/16	8	1010499	100	12.7	11.9	26.9	9.65	37.3	39.1
3/8	10	1010514	50	18.1	13.0	26.9	11.2	46.0	45.2
7/16 - 1/2	11-13	1010532	50	28.1	15.0	31.8	12.7	55.5	54.6
9/16 - 5/8	14-16	1010550	50	46.7	18.3	38.1	16.0	68.5	65.3
3/4	18-20	1010578	25	79.0	21.8	46.0	19.1	74.5	67.8
7/8	22	1010596	25	102	24.6	53.8	19.1	84.0	72.6
1	24-26	1010612	10	136	28.7	57.0	19.1	94.5	77.7
1-1/8	28-30	1010630	10	181	32.5	60.5	22.4	107	87.4
1-1/4	32-34	1010658	10	181	34.0	63.5	22.4	108	90.4
1-3/8 - 1-1/2	36-40	1010676	Bulk	318	39.6	76.0	25.4	141	105

\* Sizes through 16mm incorporate new style design.

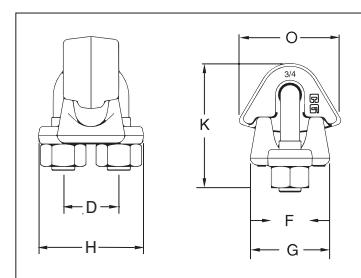
**G-429**

 Fist Grip®,Clip  
 19mm - 38mm


19mm - 38mm


**G-460**  
 Soft Eye  
 Bundle Clip  
 (For use without Thimble)


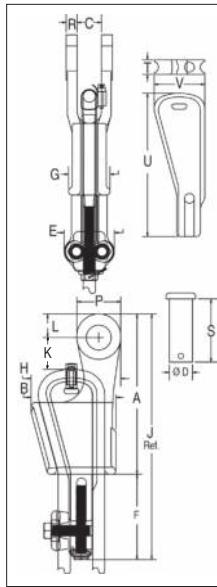
- Forged bases and bundle clip adapters.
  - All bundle clips are individually bagged or tagged with proper application instructions and warning information.
  - Bundle Clip Adapter for Soft Eye (G4460) and for Thimble Eye (G4461) kits available.
  - Meets or exceeds all requirements of ASME B30.26 including manufacturing ID and size requirements.
- Importantly, these wire rope bundle clips meet material traceability not addressed by ASME B30.26.

**G-461**  
 Thimble  
 Eye Bundle Clip


### G-460 Soft Eye / G-461 Thimble Eye Bundle Clip

Rope Size (in)	(mm)	Bundle Clip Style	Stock No.	Dimensions (mm)					Weight each (kg)	
				D	F	G	H	K		
3/4	18-20	G460	1010509	38.1	26.9	57.2	72.1	88.9	105	1.1
3/4	18-20	G461	1010619	38.1	26.9	57.2	72.1	88.9	72.4	1.1

S-421T

TA  
TYPE APPROVEDQUIC-CHECK®  
Q

- Wedge socket terminations have an efficiency rating of 80% based on the catalog strength of XXIP wire rope.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these sockets meet other critical performance requirements, including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Type Approval certification in accordance with ABS rules for conditions of classification, Part 1 2017 Steel Vessels and ABS guide for certification of lifting appliances 2017 available. Certificates available when requested at time of order and may include additional charges.
- Basket is cast steel and individually magnetic particle inspected.
- Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets.
- Secures the tail or dead end of the wire rope to the wedge, thus eliminates loss or punch out of the wedge.
- Eliminates the need for an extra piece of rope and is easily installed.
- The Terminator wedge eliminates the potential breaking off of the tail due to fatigue.
- The tail, which is secured by the base of the clip and the wedge, is left undeformed.
- Incorporates Crosby's patented QUIC-CHECK® 'Go' and 'No-Go' feature cast into the wedge. The proper size rope is determined when the following criteria are met:
  - 1) The wire rope should pass through the 'Go' hole in the wedge.
  - 2) The wire rope should NOT pass through the 'No-Go' hole in the wedge.
- Utilizes standard Crosby Red U-Bolt® wire rope clip.
- The 9mm through 28mm standard S-421 wedge socket can be retrofitted with the new style Terminator wedge.
- Available with bolt, nut, and cotter pin: S-421TB.
- US patent 5,553,360, Canada patent 2,217,004, and foreign equivalents.
- Meets the performance requirements of EN 13411-6.
- Available with API-2C certification upon request.
- Wedge sockets meet the performance requirements of Federal specification RR-S-550F, Type C, except those provisions required of the contractor.
- The S-423T Super Terminator wedge is designed to be assembled only into the Crosby S-421 Terminator socket body. Important: The S-423TW for sizes 14mm through 28mm (5/8" through 1-1/8") will fit respective size standard Crosby S-421T basket. The 30-32mm (1-1/4") S-423TW will only fit the Crosby S-421T 1-1/4" basket marked with Terminator.

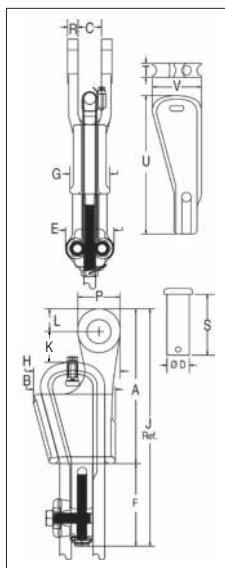
APPLICATION AND WARNING INFORMATION  
SECTION 17**S-421T WEDGE SOCKETS** (Assembly includes socket, wedge, pin and wire rope clip)

Wire Rope Dia.		Stock No.	Weight Each (kg)		Wedge Only	Weight Each (lb)	Standard Bolt, Nut & Cotter Assy	Weight Each (kg)	
(in)	(mm)								
3/8	9-10	1035000	1.44		1035555	.23	2038971	.38	
1/2	11-13	1035009	2.79		1035564	.48	2038972	.69	
5/8	14-16	1035018	4.40		1035573	.81	2038974	1.15	
3/4	18-19	1035027	6.58		1035582	1.18	2038976	1.91	
7/8	20-22	1035036	9.75		1035591	1.82	2038978	3.23	
1	24-26	1035045	13.9		1035600	2.44	2038980	5.40	
1-1/8	28	1035054	20.5		1035609	3.56	2038982	7.50	
1-1/4	30-32	1035063	29.4		1035618	4.80	2038984	10.34	

Wire Rope Dia.		S-421T Stock No.	S-421TB Stock No.	Dimensions (mm)															
(in)	(mm)			A	B	C +/- 2.29	D	G	H	J*	K*	L	P	R	S	T	U	V	
3/8	9-10	1035000	1035203	145	69.1	20.6	20.6	35.1	77.7	198	47.8	22.4	39.6	11.2	54.1	11.2	31.8	35.1	
1/2	11-13	1035009	1035212	175	88.1	25.4	25.4	41.1	95.5	226	32.0	26.9	49.3	12.7	65.0	13.5	44.5	47.8	
5/8	14-16	1035018	1035221	210	109	31.8	30.2	53.8	114	273	50.5	31.0	57.2	14.2	82.6	17.5	51.0	55.5	
3/4	18-19	1035027	1035230	251	130	38.1	35.1	62.0	134	314	61.2	35.6	66.8	16.8	92.2	19.8	59.5	65.0	
7/8	20-22	1035036	1035249	286	149	44.5	41.4	68.5	156	365	63.0	42.4	79.5	19.1	109	22.4	68.5	74.5	
1	24-26	1035045	1035258	325	161	51.0	51.0	74.7	177	414	77.2	51.0	95.5	22.4	119	26.2	73.0	83.5	
1-1/8	28	1035054	1035267	365	176	57.0	57.0	84.0	194	466	65.0	57.0	108	25.4	138	27.9	82.6	90.5	
1-1/4	30-32	1035063	1035276	415	222	66.5	63.5	90.5	239	520	74.7	59.5	114	26.9	156	30.2	117	125	

\* Nominal note: For intermediate wire rope sizes, use next larger size socket.

## US-422T



- Wedge socket terminations have an efficiency rating of 80% based on the catalog strength of XXIP wire rope.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these sockets meet other critical performance requirements, including fatigue life, impact properties, and material traceability not addressed by ASME B30.26.
- Basket is cast steel and individually magnetic particle inspected.
- Wedges are color coded for easy identification.
  - Blue - largest wire line size for socket.
  - Black - mid size wire line for socket.
  - 11mm on US4
  - 14mm on US5
  - Orange - smallest wire line size for socket.
- By simply changing out the wedge, each socket can be utilized for various wire line sizes (ensure correct wedge is used for wire rope size).
- Cast into each wedge is the model number of the socket and the wire line size for which the wedge is to be used.
- Load pin is forged and headed on one end.
- US-422T wedge sockets contain a hammer pad (lip) to assist in proper securement of termination.
- Incorporates Crosby's patented QUIC-CHECK® 'Go' and 'No-Go' feature cast into the wedge. The proper size rope is determined when the following criteria are met:
  - 1) The wire rope should pass through the 'Go' hole in the wedge.
  - 2) The wire rope should NOT pass through the 'No-Go' hole in the wedge.
- Available with API-2C certification upon request.
- UWO-422T Wedges are to be used only with the US-422T Wedge Socket Assemblies.

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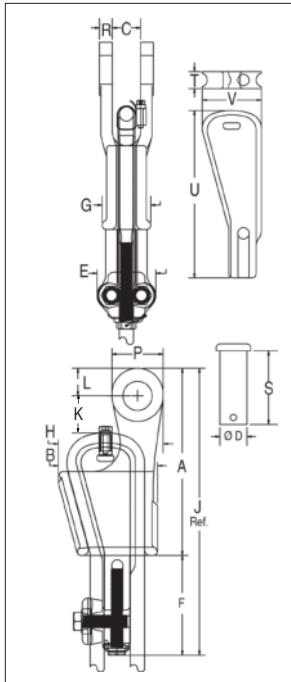
APPLICATION AND WARNING INFORMATION  
SECTION 17

## US-422T Utility Wedge Sockets

Model No.	Wire Rope Size		Stock No.	Weight Each (kg)	Wedge Only Stock No.	Wedge Only Weight Each (kg)	Dimensions (mm)														
	(in)	(mm)					A	B	C 2.29	D	G	H	J	K	L	P	R	S	T	U	V
US4T	3/8	10	1044300	2.09	1047310	0.32	173	90.2	25.4	25.4	41.4	71.4	214	35.1	26.9	49.3	12.7	64.3	11.2	48.5	54.4
US4T	7/16	11	1044309	2.09	1047301	0.46	173	90.2	25.4	25.4	41.4	71.4	222	27.4	26.9	49.3	12.7	64.3	13.5	44.7	47.8
US4T	1/2	13	1044318	2.09	1047329	0.46	173	90.2	25.4	25.4	41.4	71.4	222	25.9	26.9	49.3	12.7	64.3	13.5	44.7	47.8
US5T	1/2	13	1044327	3.86	1047338	0.91	233	107	35.8	31.8	54.1	84.1	284	46.7	38.1	76.2	16.0	82.6	19.1	48.8	54.9
US5T	9/16	14	1044336	3.86	1047347	0.82	233	107	35.8	31.8	54.1	84.1	291	61.0	38.1	76.2	16.0	82.6	17.5	50.8	55.4
US5T	5/8	16	1044345	3.86	1047356	0.82	233	107	35.8	31.8	54.1	84.1	291	59.4	38.1	76.2	16.0	82.6	17.5	50.8	55.4
US6T	5/8	16	1044354	4.26	1047365	1.37	240	119	38.1	31.8	56.9	92.2	303	63.0	38.1	76.2	14.2	82.6	22.4	60.5	69.9
US6T	3/4	19	1044363	4.26	1047374	1.14	240	119	38.1	31.8	56.9	92.2	300	51.6	38.1	76.2	14.2	82.6	22.4	54.1	66.8
US8AT	5/8	16	1044372	9.0	1047383	1.46	269	144	46.0	41.4	60.5	140	335	48.5	38.9	73.2	19.1	105	17.5	82.8	88.9
US8AT	3/4	19	1044381	9.3	1047392	1.55	269	144	46.0	41.4	60.5	148	344	60.5	38.9	73.2	19.1	105	19.8	79.2	85.9
US7*	7/8	22	1038580	7.48	1046674	1.18	286	130	33.3	31.8	68.3	—	—	65.0	41.4	82.8	16.8	82.6	26.9	53.8	65.0
US7*	1	25	1038589	7.48	1046683	1.18	286	130	33.3	31.8	68.3	—	—	65.0	41.4	82.8	16.8	82.6	26.9	47.8	60.5
US8T	7/8	22	1044404	14.3	1047425	2.50	324	177	46.0	41.4	77.7	183	407	72.9	41.9	79.2	19.1	105	22.4	98.6	106
US8T	1	25	1044417	14.7	1047431	2.77	324	177	46.0	41.4	77.7	186	417	58.9	41.9	79.2	19.1	105	26.2	95.5	103
US10T	1-1/8	28	1044426	25.1	1047440	4.40	405	219	46.0	41.4	90.7	232	501	82.8	55.6	111	19.1	105	27.7	121	129
US10T	1-1/4	32	1044435	26.3	1047459	4.72	405	219	46.0	41.4	90.7	239	514	71.9	55.6	111	19.1	105	30.2	117	125
US11T	1-1/8	28	1044444	27.5	1047468	5.7	415	222	66.5	63.5	90.4	232	507	85.6	59.4	114	26.9	156	27.7	121	129
US11T	1-1/4	32	1044453	29.4	1047477	6.8	415	222	66.5	63.5	90.4	239	520	74.7	59.4	114	26.9	156	30.2	117	125

\* Non-Terminator Style.

## S-423T



- The 423T wedge socket terminations have a minimum efficiency rating on most high-performance, high-strength, compacted-strand, rotation-resistant wire ropes of 80% based on the catalog breaking strength of the various ropes.
- Design eliminates the difficulty of properly seating the wedge with high performance wire rope into a wedge socket termination.
- Proper application of the Super Terminator eliminates the 'first load' requirement of conventional wedge socket terminations.
- S-423TW Wedge Kit can be retrofitted onto existing Crosby S-421T Terminator Wedge Sockets.
- Wedge and accessories provided with a zinc finish.
- Meets the performance requirements of EN13411-6.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these sockets meet other critical performance requirements, including fatigue life, impact properties, and material traceability not addressed by ASME B30.26.
- Basket is cast steel and individually magnetic particle inspected.
- Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets.
- Secures the tail or dead end of the wire rope to the wedge, thus eliminates loss or punch out of the wedge.
- Eliminates the need for an extra piece of rope, and is easily installed.
- The Terminator wedge eliminates the potential breaking off of the tail due to fatigue.
- The tail, which is secured by the base of the clip and the tension device, is left undeformed.
- Available with bolt, nut, and cotter pin: S-423TB.
- Available with API-2C certification upon request.
- Wedge sockets meet the performance requirements of Federal Specification RR-S-550F, Type C, except those provisions required of the contractor.
- The S-423T Super Terminator wedge is designed to be assembled only into the Crosby S-421T Terminator socket body. Important: The S-423TW for sizes 14mm through 28mm will fit respective size standard Crosby S-421T basket. The 30-32mm S-423TW will only fit the Crosby S-421T 30-32mm basket marked with Terminator.

Assembly includes socket, wedge, pin, wire rope clip, tensioner, bolts and secondary retention wire.

APPLICATION AND WARNING INFORMATION  
SECTION 17

## S-423T WEDGE SOCKETS

Wire Rope Dia.		S-423T Assembly with Round Pin and Cotter Pin				S-423TB Assembly with Bolt, Nut and Cotter Pin				S-423TW** Wedge Kit			
(in)	(mm)	S-423T Stock No.	S-423T Weight Each		S-423TB Stock No.	S-423TB Weight Each		S-423TW Stock No.	S-423TW Weight Each				
			(lb)	(kg)		(lb)	(kg)		(lb)	(kg)			
5/8	14-16	1035123	12.7	5.8	1035218	13.1	5.9	1034018	5.2	2.4			
3/4	18-19	1035132	19.4	8.8	1035227	19.1	8.7	1034027	7.2	3.3			
7/8	20-22	1035141	28.8	13.1	1035236	27.8	12.6	1034036	10.3	4.7			
1	24-26	1035150	39.2	17.8	1035245	37.3	16.9	1034045	11.9	5.4			
1-1/8	28	1035169	57.1	25.9	1035254	57.9	25.9	1034054	19.9	9.0			
1-1/4	30-32	1035178	88.6	40.2	1035272	88.1	39.9	1034063	33.8	15.3			

\*\*Kit contains wedge, wire rope clip and bolts, tensioner bolt, and secondary retention wire.

Wire Rope Dia.		S-423T Stock No.	Dimensions (mm)																
(in)	(mm)		A	B	C	D	E	F	G	H	J*	K	L	P	R	S	T	U	V
5/8	14-16	1035123	210	114	31.8	30.2	76.2	103	54.1	117	313	28.0	31.0	57.2	14.2	82.6	19.1	175	66.0
3/4	18-19	1035132	251	132	38.1	35.1	82.6	122	62.0	136	373	38.0	35.6	66.5	16.8	92.2	22.4	194	76.7
7/8	20-22	1035141	286	149	44.5	41.4	96.8	146	68.3	156	431	40.5	42.4	79.5	19.1	109	25.4	241	88.1
1	24-26	1035150	325	167	50.8	50.8	96.8	146	74.7	179	471	36.5	51.1	95.3	22.4	119	28.7	264	97.0
1-1/8	28	1035169	365	176	57.2	57.2	102	174	85.9	198	539	28.5	57.4	108	25.4	138	31.8	300	107
1-1/4	30-32	1035178	415	219	66.5	63.5	114	197	90.7	238	612	38.0	59.4	114	26.9	168	35.1	352	148

\* Nominal note: For intermediate wire rope sizes, use next larger size socket.

# Wire Rope Lubricant

**Vitalife® products are the preferred wire rope lubricants in the industry because of their ability to penetrate into wire rope and displace water and contaminants, thus reducing wear and corrosion throughout the rope.**

- Available in a variety of container sizes.
- Provides inner strand preservation and lubricity.
- Allows for easy visual inspection of the ropes.
- Reduces the friction between the strands of the wire rope, thus extending rope life.
- Adheres to surface of strands, forming an outer film which provides excellent corrosive protection.
- Non-tacky (will not attract dust)
- Vitalife® in aerosol form is a regulated dangerous good. See MSDS sheet for shipping instructions.
- Vitalife® Bio-Lube has been developed especially for environmentally friendly applications.
- Vitalife® 500 has been developed exclusively for ski lifts and tramways.

VITALIFE® 400  
12 OZ.



VITALIFE® 410  
BIO-LUBE  
12 OZ.



VITALIFE® 400  
5 GALLON



VITALIFE® 400  
55 GALLON



Vitalife® Type	Container Size	Stock No.	Weight Each (kg)
Vitalife® 400 (Standard)	12 Ounce	1038946	1.00
	5 Gallon	1038955	41.0
	55 Gallon	1038964	420
Vitalife® 410 BIO-LUBE (Environmentally Friendly)	12 Ounce	1039004	1.00
	5 Gallon	1039013	41.0
	55 Gallon	1039022	420
Vitalife® 500 (Ski Lifts and Tramways)	5 Gallon	1038973	41.0
	55 Gallon	1038982	420

SPRAY  
APPLICATORS  
BACKPACK  
SPRAYER  
4 GALLON



## VSP Vitalife® Spray Applicators

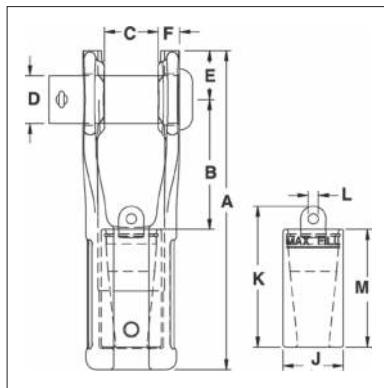
- Designed and manufactured to work in the rugged field conditions of the construction industry.
- All applicator seals are specially designed to work with Vitalife® 400 and BIO-LUBE products.

Description	VSP Stock No.	Weight Each (kg)
15 Liter Backpack Sprayer	1039092	5.3

## SB-427



- Available in six sizes from 13mm - 38mm.
- Button Spelter terminations have a 100% efficiency rating, based on the catalog strength of the wire rope.
- Designed for use with mobile cranes. Can be used to terminate high performance, rotation resistant ropes, and standard 6 strand ropes.
- Easy to install assembly utilizes Crosby WIRELOCK® socketing compound.
- Sockets and buttons are re-usable.
- Replacement buttons and sockets are available.
- Locking feature available to prevent rotation of rope.
- Button contains cap with eye that can be attached to, and used to pull, rope during reeling process.
- Manufactured to the requirements of API-2C.



APPLICATION AND WARNING INFORMATION  
SECTION 17

### SB-427 Button Spelter Sockets

Wire Rope Size		Stock No.	Ultimate Load (t)	Weight Each (kg)	Button Only Stock No.	Dimensions (mm)										Tolerance +/- (mm)
(in)	(mm)					A	B	C	D	E	F	J	K	L	M	
1/2 - 5/8	13-16	1052005	27	2.76	1052309	202	82	33	30	31	14	38	89	6	74	1.52
5/8 - 3/4	16-19	1052014	45	4.67	1052318	240	99	39	35	37	17	44	109	10	87	1.52
3/4 - 7/8	19-22	1052023	57	7.75	1052327	275	112	45	41	43	19	52	121	10	101	1.52
7/8 - 1	22-26	1052032	82	13.24	1052336	327	139	52	51	51	23	62	143	16	115	2.29
1-1/8 - 1-1/4	28-32	1052041	136	20.86	1052345	378	144	64	57	64	28	75	180	19	145	2.29
1-3/8 - 1-1/2	35-38	1052050	161	35.38	1052354	459	182	77	70	70	31	92	205	19	172	2.29

### SB-427TB (Bolt, Nut and Cotter Pin)

Wire Rope Size		Stock No.	Ultimate Load (t)	Weight Each (kg)	Button Only Stock No.	Dimensions (mm)										Tolerance +/- (mm)
(in)	(mm)					A	B	C	D	E	F	J	K	L	M	
1/2 - 5/8	13-16	1052406	27	2.76	1052309	202	82	33	30	31	14	38	89	6	74	1.52
5/8 - 3/4	16-19	1052415	45	4.67	1052318	240	99	39	35	37	17	44	109	10	87	1.52
3/4 - 7/8	19-22	1052424	57	7.75	1052327	275	112	45	41	43	19	52	121	10	101	1.52
7/8 - 1	22-26	1052433	82	13.24	1052336	327	139	52	51	51	23	62	143	16	115	2.29
1-1/8 - 1-1/4	28-32	1052442	136	20.86	1052345	378	144	64	57	64	28	75	180	19	145	2.29
1-3/8 - 1-1/2	35-38	1052451	161	35.38	1052354	459	182	77	70	70	31	92	205	19	172	2.29

### Wirelock® Requirements

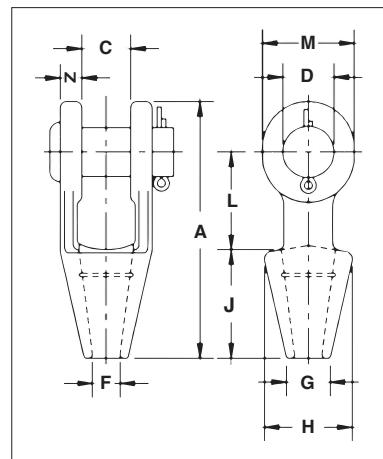
Wire Rope Size		WIRELOCK Required (cc)	WIRELOCK Stock No.	WIRELOCK Kit Size (cc)
(in)	(mm)			
1/2 - 5/8	13-16	35	1039602	100
5/8 - 3/4	16-19	60	1039602	100
3/4 - 7/8	19-22	100	1039602	100
7/8 - 1	22-26	140	1039602*	100
1-1/8 - 1-1/4	28-32	250	1039604	250
1-3/8 - 1-1/2	35-38	420	1039606	500

\* 2 kits required.

## G-416 / S-416



- Forged steel sockets through 38mm, cast alloy steel 40mm through 102mm.
- Spelter socket terminations have an efficiency rating of 100%, based on the catalog strength of wire rope.
- Ratings are based on recommended use with 6 x 7, 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope.
- Strand constructed with minimal number of wires (e.g. 1 x 7) requires special consideration that socket basket length be five (5) times the strand diameter or fifty (50) times the wire diameter, whichever is the greater.
- All cast steel sockets 40mm and larger are magnetic particle inspected and ultrasonic inspected. Proof testing available on special order.
- Available with bolt nut and cotter: G-416B.
- Open Grooved Sockets meet the performance requirements of Federal Specification RR-S-550F, Type A, except for those provisions required of the contractor.



## G-416 / S-416 Open Spelter Sockets

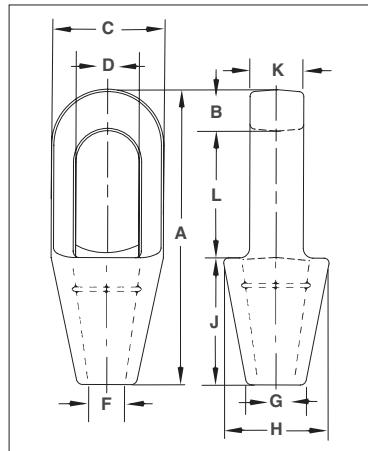
Rope Dia.		Structural Strand Dia. (mm)	Ultimate Load (t)	Stock No.		Weight Each (kg)	Dimensions (mm)									Tolerance +/- (mm)	
(in)	(mm)			G-416 Galv.	S-416 S.C.		A	C	D	F	G	H	J	L	M	N	C
5/16-3/8	8-10	—	12	1039637	1039646	.59	123	20.6	20.6	12.7	20.6	42.9	57.0	44.5	38.1	11.2	1.52
7/16-1/2	11-13	—	20	1039655	1039664	1.02	141	25.4	25.4	14.2	23.9	47.8	63.5	51.0	47.8	12.7	1.52
9/16-5/8	14-16	12-13	27	1039673	1039682	1.63	171	31.8	30.2	17.5	28.7	57.0	76.0	63.5	57.0	14.2	1.52
3/4	18	14-16	43	1039691	1039708	2.64	202	38.1	35.1	20.6	31.8	66.5	89.0	76.0	66.5	15.7	1.52
7/8	20-22	18-19	55	1039717	1039726	4.38	235	44.5	41.4	23.9	38.1	82.5	102	89.0	79.5	20.3	1.52
1	24-26	20-22	78	1039735	1039744	7.03	268	51.0	51.0	28.7	44.5	95.5	114	102	95.5	22.4	1.52
1-1/8	28-30	24-26	92	1039753	1039762	9.75	300	57.0	57.0	31.8	51.0	105	127	117	105	25.4	3.05
1-1/4 - 1-3/8	32-35	28	136	1039771	1039780	14.1	335	63.5	63.5	38.1	57.0	121	140	127	121	28.7	3.05
1-1/2	38	30-32	170	1039799	1039806	21.4	384	76.0	70.0	41.4	70.0	133	152	152	137	30.2	3.05
* 1-5/8	* 40-42	33-35	188	1039815	1039824	24.9	413	76.0	76.0	44.5	76.0	140	165	165	146	33.3	3.05
* 1-3/4 - 1-7/8	* 44-48	36-40	268	1039833	1039842	37.2	464	89.0	89.0	51.0	79.5	162	191	178	165	39.6	3.05
* 2 - 2-1/8	* 50-54	42-45	291	1039851	1039860	59	546	102	95.5	57.0	95.5	187	216	229	178	46.0	3.05
* 2-1/4 - 2-3/8	* 56-60	46-48	360	1039879	1039888	76	597	114	108	63.5	102	210	229	254	197	54.0	3.05
* 2-1/2 - 2-5/8	* 64-67	50-54	424	1041633	1041642	114	648	127	121	73.0	114	235	248	274	216	60.5	3.05
* 2-3/4 - 2-7/8	* 70-73	56-62	511	1041651	1041660	143	692	133	127	79.0	124	267	279	279	229	73.0	6.35
* 3 - 3-1/8	* 75-80	64-67	563	1041679	1041688	172	737	146	133	86.0	133	282	305	287	241	76.0	6.35
* 3-1/4 - 3-3/8	* 82-86	70-73	722	1041697	1041704	197	784	159	140	92.0	146	302	330	300	254	79.0	6.35
* 3-1/2 - 3-5/8	* 88-92	76-80	779	1041713	1041722	255	845	171	152	98.5	165	314	356	318	274	82.5	6.35
* 3-3/4 - 4	* 94-102	—	875	1041731	1041740	355	921	191	178	108	184	346	381	343	318	89.0	6.35

\* Cast alloy steel.

### G-417 / S-417



- Forged steel sockets through 38mm, cast alloy steel 40mm through 102mm.
- Spelter socket terminations have an efficiency rating of 100%, based on the catalog strength of wire rope.
- Ratings are based on recommended use with 6 x 7, 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope.
- Strand constructed with minimal number of wires (e.g. 1 x 7) requires special consideration that socket basket length be five (5) times the strand diameter or fifty (50) times the wire diameter, whichever is the greater.
- All cast steel sockets 40mm and larger are magnetic particle inspected and ultrasonic inspected. Proof testing available on special order.
- Closed Grooved Sockets meet the performance requirements of Federal Specification RR-S-550F, Type B, except for those provisions required of the contractor.



### G-417 / S-417 Closed Spelter Sockets

Rope Dia.		Structural Strand Dia. (mm)	Ultimate Load (t)	Stock No.		Weight Each (kg)	Dimensions (mm)									
(in)	(mm)			G-417 Galv.	S-417 S.C.		A	B	C	D*	F	G	H	J	K	L
5/16 - 3/8	8-10	—	12.0	1039913	1039922	.34	125	15.8	42.9	24.6	12.7	20.6	42.9	57.2	17.5	52.3
7/16 - 1/2	11-13	—	20.0	1039931	1039940	.68	140	17.5	51.0	29.5	14.2	23.9	51.0	63.5	22.4	58.7
9/16 - 5/8	14-16	12-13	30.8	1039959	1039968	1.13	162	20.6	67.0	35.8	17.5	30.2	67.0	76.2	25.4	65.0
3/4	18	14-16	43.5	1039977	1039986	1.92	194	26.9	76.2	42.2	22.4	33.3	70.0	89.0	31.8	77.7
7/8	20-22	18-19	65.3	1039995	1040000	3.28	226	33.3	92.0	49.3	25.4	38.1	82.5	102	38.1	90.5
1	24-26	20-22	81.6	1040019	1040028	4.76	254	36.6	105	58.5	28.7	44.5	95.5	114	44.5	103
1-1/8	28-30	24-26	100	1040037	1040046	6.46	283	39.6	114	65.0	31.8	51.0	105	127	51.0	116
1-1/4 - 1-3/8	32-35	28	136	1040055	1040064	8.95	309	41.4	127	71.0	38.1	58.5	119	138	56.5	129
1-1/2	38	30-32	170	1040073	1040082	13.24	355	49.3	137	81.0	41.4	70.5	132	151	62.5	155
† 1-5/8	† 40-42	33-35	188	1040091	1040108	16.32	390	54.0	146	82.5	44.5	76.2	140	165	70.0	171
† 1-3/4 - 1-7/8	† 44-48	36-40	268	1040117	1040126	25.96	445	55.5	171	95.5	51.0	79.5	162	191	76.2	198
† 2 - 2-1/8	† 50-54	42-45	309	1040135	1040144	35.83	505	62.0	194	111	57.2	95.5	187	216	82.5	224
† 2-1/4 - 2-3/8	† 56-60	46-48	360	1040153	1040162	47.62	546	70.0	216	127	66.8	105	210	229	92.0	248
† 2-1/2 - 2-5/8	† 64-67	50-54	424	1041759	1041768	63.50	597	79.5	241	140	74.5	114	235	248	102	270
† 2-3/4 - 2-7/8	† 70-73	56-62	549	1041777	1041786	99.79	645	79.5	273	159	79.5	124	259	279	124	286
† 3 - 3-1/8	† 75-80	64-67	656	1041795	1041802	125	689	85.6	292	171	86.0	133	292	305	133	298
† 3-1/4 - 3-3/8	† 82-86	70-73	750	1041811	1041820	142	743	102	311	184	92.0	146	311	330	146	311
† 3-1/2 - 3-5/8	† 88-92	76-80	820	1041839	1041848	181	787	102	330	197	98.5	160	330	356	159	330
† 3-3/4 - 4	† 94 - 102	—	1005	1041857	1041866	246	845	108	362	216	108	184	362	381	178	356

\* Diameter of pin must not exceed pin used on companion 416 socket. Reference adjacent page "D" dimension. † Cast alloy steel.

## RESIN FOR SPUTTER SOCKETS

Note: For use on 416, 417, 427 and 517 spelter sockets only.



**WIRELOCK®**  
Socketting Compound

- 100% termination efficiency.
- Temperature operating range is -54°C to +116°C (-65°F to +240°F).
- Ideal for on-site applications.
- No hazardous molten metal.
- Improved fatigue life.
- Pouring temperature without booster pack is 6.67°C to 43.3°C (48°F to 110°F).
- One booster pack if pouring temperature is 1.67°C to 8.89°C (35°F to 48°F).
- Two booster packs if pouring temperature is -2.78°C to +1.67°C (27°F to 35°F).
- Refer to Crosby® Wire Rope End Terminations Manual for more information.
- Storage temperature is 20°C (68°F) max. Store in well ventilated area away from sunlight and sources of ignition.



### APPROVALS:

Lloyds Register of Shipping



Det Norske Veritas (DNV)



United States Coast Guard



Registro Italiano Navale



Germanischer Lloyd

United States Navy

American Bureau of Shipping

ISO 17.558

DNV-OS-E304



### NATO Numbers:

100cc	8030-21-902-1823
250cc	8030-21-902-1824
500cc	8030-21-902-1825
1000cc	8030-21-902-1826

Witnessed and tested by American Bureau of Shipping. (ABS)

Approximate U.S. Measurements:  
250cc's Kit      1 Cup

### WIRELOCK® W416-7 Socket Compound

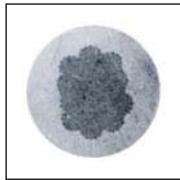
W416-7 Kits				Booster Pak Stock No.
Kit Size	Kit Per Case	Stock No.	Weight Each (kg)	
100	20	1039602	.28	1039603
250	12	1039604	.57	1039605
500	12	1039606	1.15	1039607
1000	12	1039608	2.08	1039609
2000	6	1039610	4.08	1039611

### Guide to amount WIRELOCK® Required

Wire Rope Size (in)	Wire Rope Size (mm)	WIRELOCK Required (cc)	WIRELOCK Required (cc)	
			(in)	(mm)
1/4	6-7	9	1-3/4	44
5/16	8	17	1-7/8	48
3/8	9-10	17	2	51
7/16	11	35	2-1/8	54
1/2	13	35	2-1/4	56
9/16	14	52	2-3/8	60
5/8	16	52	2-1/2	64
3/4	20	86	2-5/8	67
7/8	22	125	2-3/4	70
1	26	160	3	76
1-1/8	28	210	3-1/4	82
1-1/4	32	350	3-1/2	88
1-3/8	36	350	3-3/4	94
1-1/2	40	420	4	102
1-5/8	42	495	—	—

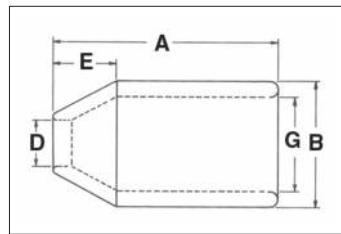
Wirelock is a hazardous material regulated by US DOT, ICAO/IATA and IMO for transportation.

APPLICATION AND WARNING INFORMATION  
SECTION 17

**S-505  
Swaging Sleeve**


Cross Section of Swaged Sleeve

- For flemish eye wire rope splicing.
- Designed for low temperature toughness.
- Resists cracking when swaged (equals or exceeds stainless steel sleeves).
- Special processed low carbon steel.
- COLD TUFF® for better swageability.
- Can be stamped for identification after swaging without concern for fractures when following these directions:
  - Use round corner stamps to a maximum depth of 1.38mm.
  - The area for stamping should be on the side of the sleeve in the plane of the sling eye, and no less than 7mm from either end of the sleeve.
- Standard steel sleeve terminations have efficiency ratings as follows based on the catalog strength of wire rope.
- Do not use on wire rope size other than size shown.



S-505 Termination Efficiency		
Size (mm)	Type of Wire Rope *	
	IWRC	FC
6 - 26	96%	93%
28 - 52	92%	89%
56 and Larger	90%	87%

**Intermediate Metric Die Chart**

Sleeve and Swaging Die Requirements for Intermediate Sizes of Metric Wire Rope								
S-505 Stock No.	S-505 Sleeve Size	Metric Wire Rope Size (mm)	Standard Round Dies				Maximum After Swage Dimension (mm)	
			1st Stage Die		2nd Stage Die			
1041143	1/2	12	1190881	5 x 7 Double Cavity	—	—	25.1	
1041223	7/8	20	1190901	5 x 7 Double Cavity	—	—	41.1	
1041241	1	24	1190921	5 x 7 Double Cavity	—	—	47.8	
1041321	1-1/2	36	1192649	5 x 7	1190941	5 x 7	66.8	
1041349	1-3/4	40	1192685	5 x 7	1190961	5 x 7	74.9	
1041367	2	48	1192729	5 x 7	1190971	5 x 7	87.9	
1041401	2-1/2	60	1192809	5 x 7	1190981	5 x 7	111	
1041401	2-1/2	60	1191061	6 x 12	1190991	6 x 12	111	
1041447	3	72	1193201	6 x 12	1191001	6 x 12	122	
1041483	3-1/2	80	1193247	6 x 12	1191101	6 x 12	138	
1041483	3-1/2	84	1193247	6 x 12	1191121	6 x 12	141	

QUIC-PASS® system not available for these metric rope sizes. Note: Fittings designed only to be used on exact sizes listed.

\*\* NOTE: S-505 Standard Sleeves are recommended for use with 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope.

Before using any National Swage fitting with any other type lay, construction or grade of wire rope, it is recommended that the termination be destructive and documented to prove the adequacy of the assembly to be manufactured.

**S-505 COLD TUFF® Standard Steel Sleeves**

S-505 Standard Steel Sleeve Specifications													Swager / Die Data			
S-505 Stock No.	Rope Size		Weight Per 100 (kg)	Pkg. Qty.	Before Swage Dimensions (mm)						Maximum After Swage Dimensions (mm)	QUIC-PASS Die	Standard Round Dies		QUIC-PASS Dies	
	(in)	(mm)			A	B	D	E	G	Standard Die			Die Description	Standard Die Stock No.	QUIC-PASS Die Stock No.	
1041063	1/4	6-7	3.60	250	25.4	16.8	7.88	7.12	11.9	14.5	14.4	1/4 Taper	1197528	1923530		
1041090	5/16	8	4.08	200	38.1	23.1	11.2	11.2	15.8	19.1	19.5	3/8 Taper	1192364	1923551		
1041107	3/8	9-10	5.44	100	38.1	23.1	11.9	9.91	16.8	19.1	19.5	3/8 Taper	1192364	1923551		
1041125	7/16	11	13.6	50	51.0	31.0	14.0	16.5	21.6	25.7	25.8	1/2 Taper	1192408	1923572		
1041143	1/2	13	13.2	50	51.0	31.0	16.0	14.2	23.1	25.7	25.8	1/2 Taper	1192408	1923572		
1041161	9/16	14	30.8	25	70.0	37.3	17.5	16.0	26.2	31.5	31.7	5/8 Taper	1192444	1923593		
1041189	5/8	16	25.9	25	70.0	37.3	19.1	16.0	27.7	31.5	31.7	5/8 Taper	1192444	1923593		
1041205	3/4	18-19	40.0	20	81.0	43.7	23.1	21.3	32.5	37.1	37.5	3/4 Taper	1192462	1923614		
1041223	7/8	22	62	10	90.5	51.5	26.2	25.4	38.9	42.7	44.1	7/8 Taper	1192480	1923635		
1041241	1	25-26	89	10	102	58.0	29.5	28.6	43.7	49.0	49.7	1 Taper	1192505	1923656		
1041269	1-1/8	28-29	118	Bulk	122	63.5	32.5	31.8	49.3	54.1	55.1	1-1/8 Open 1st Stage 2nd Stage	1192523 1192541	1923677		
1041287	1-1/4	31-32	154	Bulk	132	70.5	36.5	35.8	55.0	58.9	61.1	1-1/4 Open 1st Stage 2nd Stage	1192621 1192587	1923698		
1041303	1-3/8	34-35	195	Bulk	148	76.0	39.7	39.7	60.5	64.0	66.3	1-3/8 Open 1st Stage 2nd Stage	1192667 1192621	1923717		
1041321	1-1/2	37-38	226	Bulk	159	82.5	42.9	42.9	67.0	69.0	72.0	1-1/2 Open 1st Stage 2nd Stage	1192649 1192667	1923736		

Note: Fittings designed only to be used on exact sizes listed.

**S-505 COLD TUFF® Standard Steel Sleeves**

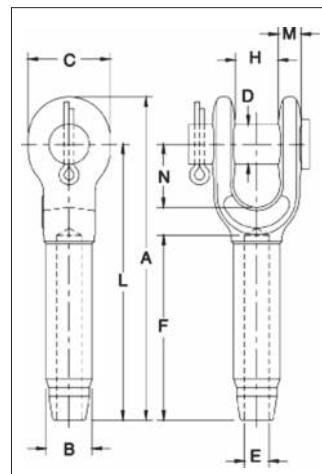
S-505 Standard Steel Sleeve Specifications													Swager / Die Data					
S-505 Stock No.	Rope Size		Weight Per 100 (kg)	Pkg. Qty.	Before Swage Dimensions (mm)						Maximum After Swage Dimensions (mm)	Die Description	Stock No.					
	(in)	(mm)			A	B	D	E	G	Standard Die			500 Tons	1000 Tons	1500 Tons	1500 Ton 6x12	3000 Ton 6x12	1500 Ton 6x12
1041349	1-3/4	44-45	367	Bulk	184	97.5	49.2	50.0	79.5	78.7	1-3/4 Open 1st Stage 2nd Stage	1192685 1192701	—	—	—	—	—	—
1041367	2	50-52	510	Bulk	216	111	57.0	57.0	92.0	90.4	2 Open 1st Stage 2nd Stage	1192729 1192747	—	—	—	—	—	—
1041385	2-1/4	56-57	862	Bulk	243	128	63.5	64.5	102	105	2-1/4 Open 1st Stage 2nd Stage	1192765 1192783	1191089 1191043	1191089 1191043	—	1195085 1195067	—	1195085 1195067
1041401	2-1/2	62-64	1043	Bulk	267	140	70.0	71.5	114	114	2-1/2 Open 1st Stage 2nd Stage	—	1191061 1191089	1191061 1191089	1195370 1195469	1195076 1195085	—	1195076 1195085
1041429	2-3/4	68-70	1270	Bulk	292	146	76.0	78.5	121	119	2-3/4 Open 1st Stage 2nd Stage	—	1191034 1191052	1191034 1191052	1195389 1195478	1195094 1195101	—	1195094 1195101
1041447	3	75-76	1334	Bulk	305	152	82.5	86.0	127	126	3 Open 1st Stage 2nd Stage	—	1193201 1193229	1193201 1193229	1195398 1195487	1195110 1195129	—	1195110 1195129
1041483	3-1/2	87-89	2105	Bulk	356	178	98.5	100	148	147	3-1/2 Open 1st Stage 2nd Stage	—	1193247 1193265	1193247 1193265	—	1195138 1195147	—	1195138 1195147
1041492	3-3/4	93-95	2495	Bulk	381	191	103	108	160	158	3-3/4 Open 1st Stage 2nd Stage	—	—	1191114 1191132	—	1195263 1195272	—	1195263 1195272
1041508	4	100-105	3130	Bulk	406	206	111	114	173	170	4 Open 1st Stage 2nd Stage	—	—	1191150 1191178	—	1195156 1195165	—	1195156 1195165
1041526	4-1/2	112-114	4536	Bulk	457	232	124	129	195	189	4-1/2 Open 1st Stage 2nd Stage	—	—	1191187 1191203	—	1195174 1195183	—	1195174 1195183

Note: Fittings designed only to be used on exact sizes listed.

## S-501



- Forged from special bar quality carbon steel, suitable for cold forming.
- Swage socket terminations have an efficiency rating of 100% based on the catalog strength of wire rope.
- Hardness controlled by spheroidize annealing.
- Stamp for identification after swaging without concern for fractures (as per directions in Wire Rope End Terminations User's Manual).
- Swage sockets incorporate a reduced machined area of the shank which is equivalent to the proper 'after swage' dimension. Before swaging, this provides for an obvious visual difference in the shank diameter. After swaging, a uniform shank diameter is created allowing for a QUIC-CHECK® and permanent visual inspection opportunity.
- S-501 Swage Sockets are recommended for use with 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope.
- In accordance with ASME B30.9, all slings terminated with swage sockets shall be proof loaded.\*



## S-501 Open Swage Sockets

S-501 and S-501B Open Socket Specifications														Tolerance +/-	Swager / Die Data							
S-501 Stock No.	S-501B Stock No. †	Rope Size		Wt. Each (kg)	Ultimate Load** (t)	Before Swage Dimensions (mm)									Max. After Swage Dim. (mm)	Stock No.		Side Load				
		(in)	(mm)			A	B	C	D	E	F	H	L	M	N	500 Ton 5 x 7	1000 Ton 6 x 12	1500 Ton 6 x 12	1500 Ton 6 x 12	3000 Ton 6 x 12		
1039021	1054001	1/4	6	0.24	5.4	122	12.7	35.1	17.5	6.85	54.0	17.5	102	9.65	38.1	1.52	11.7	1/4 Socket	1192845	-	-	-
1039049	1054010	5/16	8	0.51	11.8	159	19.6	41.1	20.6	8.65	81.0	20.6	135	11.9	44.5	1.52	18.0	5/16-3/8 Socket	1192863	-	-	-
1039067	1054029	3/8	9-10	0.59	13.6	159	19.6	41.1	20.6	10.4	81.0	20.6	135	11.9	44.5	1.52	18.0	5/16-3/8 Socket	1192863	-	-	-
1039085	1054038	7/16	11-12	0.94	18.1	198	24.9	51.0	25.4	12.2	108	25.4	170	14.2	51.0	1.52	23.1	7/16-1/2 Socket	1192881	-	-	-
1039101	1054047	1/2	13	0.94	21.3	198	24.9	51.0	25.4	14.0	108	25.4	170	14.2	51.0	1.52	23.1	7/16-1/2 Socket	1192881	-	-	-
1039129	1054056	9/16	14	2.12	31.8	241	31.8	60.5	30.2	15.5	135	31.8	207	17.3	57.0	1.52	29.5	9/16-5/8 Socket	1192907	-	-	-
1039147	1054065	5/8	16	2.05	34.9	241	31.8	60.5	30.2	17.0	135	31.8	207	17.3	57.0	1.52	29.5	9/16-5/8 Socket	1192907	-	-	-
1039165	1054074	3/4	18-20	3.62	43.5	294	39.4	70.0	35.1	20.3	162	38.1	254	20.3	70.0	1.52	36.1	3/4 Socket	1192925	-	-	-
1039183	1054083	7/8	22	5.23	51.5	341	43.2	79.5	41.1	23.9	189	44.5	295	23.9	82.5	1.78	39.4	7/8 Socket	1192943	-	-	-
1039209	1054092	1	24-26	8.07	71.4	393	50.5	93.5	51.0	26.9	216	51.0	340	26.9	95.5	2.03	45.7	1 Socket	1192961	-	-	-
1039227	1054104	1-1/8	28	11.5	83.3	440	57.0	105	57.0	30.2	245	57.0	381	30.2	108	2.54	52.0	1-1/8 Socket	1192989	-	-	-
1039245	1054113	1-1/4	32	16.1	109	484	64.5	117	63.5	33.8	272	63.5	419	31.0	119	2.54	58.5	1-1/4 Socket	1193005	-	-	-
1039263	1054122	1-3/8	34-36	19.8	136	532	71.0	127	63.5	36.8	297	63.5	461	35.1	133	2.07	65.0	1-3/8 Socket	1193023	-	-	-
1039281	1054131	1-1/2	38-40	26.5	181	589	78.0	140	70.0	40.1	325	76.0	502	43.2	145	2.54	71.5	1-1/2 Socket	1193041	1191267	1195355	1195192
1039307	1054140	1-3/4	44	40.3	228	676	86.0	170	89.0	47.2	378	89.0	584	53.6	171	2.54	77.5	1-3/4 Socket	1193069	1191276	1195367	1195209
1042767	1054159	2	48-52	66	272	799	100	203	95.5	53.5	432	102	683	60.0	203	2.54	90.5	2 Socket	1193087	1191294	1195379	1195218

\*Maximum Proof Load shall not exceed 50% of XXIP rope catalog breaking strength. \*\* The Ultimate Loads of 3/4" through 1 1/4" sizes have been increased to meet the requirements for 8 strand 2160 Grade pendants. † Assembly with bolt, nut and cotter pin. Note: Fittings designed only to be used on exact sizes listed.

NOTE: Before using any Crosby fitting with any other type lay, construction or grade of wire rope, it is recommended that the termination be destructive tested and documented to prove the adequacy of the assembly to be manufactured.