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LIFTING CHAIN & FITTINGS

ALLOY GRADE 80
CHAIN SLING WORKING LOAD LIMITS (WLL)

CHAIN SIZE (mm)	WORKING LOAD LIMIT UNDER GENERAL CONDITION OF USE (t)												
	SINGLE LEG SLINGS			SLINGS OF 2, 3 OR 4 LEGS						ENDLESS SLINGS			
	Straight or adjustable slings with no deration	Adjustable sling with deration	Reeved sling	Straight sling		Reeved sling		Basket sling		Reeved sling			
Loading Factors	x1	x0.75	x0.75	x1.73	x1.41	x1	x1.3	x1.06	x0.75	x1.3	x1.06	x0.75	x1.5
6	1.1	0.8	0.8	1.9	1.6	1.1	1.5	1.2	0.8	1.5	1.2	0.8	1.7
8	2.0	1.5	1.5	3.5	2.8	2.0	2.6	2.1	1.5	2.6	2.1	1.5	3.0
10	3.2	2.4	2.4	5.5	4.5	3.2	4.1	3.4	2.4	4.1	3.4	2.4	4.8
13	5.3	4.0	4.0	9.2	7.5	5.3	6.9	5.6	4.0	6.9	5.6	4.0	8.0
16	8.0	6.0	6.0	13.8	11.3	8.0	10.4	8.5	6.0	10.4	8.5	6.0	12.0
19	11.2	8.4	8.4	19.4	15.8	11.2	14.6	11.9	8.4	14.6	11.9	8.4	16.8
20	12.5	9.4	9.4	21.6	17.6	12.5	16.3	13.3	9.4	16.3	13.3	9.4	18.8
22	15.0	11.3	11.3	26.0	21.2	15.0	19.5	15.9	11.3	19.5	15.9	11.3	22.5
26	21.2	15.9	15.9	36.7	29.9	21.2	27.6	22.5	15.9	27.6	22.5	15.9	31.8
32	31.5	23.6	23.6	54.5	44.4	31.5	41.0	33.5	23.6	41.0	33.4	23.6	47.3

To AS/NZS 3775 (SAFETY FACTOR OF 4)



- We can manufacture chain slings to your requirements in any configuration and length.
- All slings are manufactured, tested and certified to Australian Standard requirements.
- WLL tags are fitted to all of our chain slings.

CONDITIONS OF USE

Heat treatment: Grade T chain slings shall not be heat treated subsequent to the completion of their manufacture, except by the manufacturer of the component.

Galvanizing: Grade T chainslings shall not be hot-dip galvanised or electroplated, except by the manufacturer of the component, as these processes may be detrimental to the sling.

Corrosive environments: Grade T chain slings and fittings should not be used in acid or other corrosive environments, due to the possibility of hydrogen embrittlement and corrosion.

Temperature effects: Temperatures at which the sling is used could affect its strength. Slings should not be used at temperatures colder than minus 10°C, prior to checking with the manufacturer to ensure its stability at such a temperature.

Under no circumstances should Grade T chain slings be used if its temperature has exceeded 400°C. Any sling that has been exposed to a temperature exceeding 400°C should be immediately withdrawn from service and destroyed.

The strength of Grade T chain is adversely affected by excessively elevated temperatures. It may be difficult to determine in practice the actual temperature involved, but underestimation must be avoided. Where subjected to elevated temperatures up to 400°C, the following reductions to the WLL will apply:

Temperature (°C)	Reduction of WLL (%)
> -10 < 200	Nil
> 200 < 300	10
>300 < 400	25

RECOMMENDATIONS

- Ensure the sling has a metal tag showing the WLL for its various configurations.
- Packing (such as wooden blocks) may be required where a chain comes into contact with a load, to protect the chain and the load from damage. Sharp corners of metal or other hard materials can bend or damage chain links.
- Where one or more legs of a multi-leg sling are not being used, ensure they are hooked back to the master link or intermediate link during operations.
- Chain slings shall not be subject to shock loading. When loads are accelerated and decelerated suddenly, high dynamic forces occur, which increase stresses in the chain. Such situations arise from snatch or shock loading (eg. from not taking up the slack chain before starting to lift or by the impact of arresting falling loads).
- When landing, avoid the possibility of crushing or trapping the sling by ensuring the load does not land on the sling. Suitable damage should not be used to enable the sling to be readily removed by hand.

INSPECTION

In-service: Prior to each use, chain slings shall be visually inspected. Ensure that slings are free of any significant damage or wear and a WLL tag is fitted. If any defects are detected, the sling shall immediately be withdrawn from service.

Periodic: It is important for slings to be periodically inspected by a competent person, and the following apply:

- Sling inspections shall be undertaken in an adequately lit location.
- Where necessary, the sling should be cleaned before it is inspected.
- Every individual chain link should be inspected for any signs of wear, nicks, cracks, gouging, twisting, stretching or lack of articulation between the links. Particular attention should be given to links that have been reeved, due to the possibility of bending or twisting of the engaged link.
- Any worn components should be measured to determine the degree of wear, which shall not exceed that allowed. Wear may be tolerated until the thickness of any worn section has been reduced by 10% of the nominal section in any plane. Wear by contact with other objects usually occurs on the outside of the straight portions of the links where it is easily seen and measured. Wear between adjoining links is hidden. The chain should be slack and adjoining links rotated to expose the inner end of each link.
- Upper and lower terminal fittings should be inspected for any signs of wear at their load-bearing points, nicks, cracks, gouging, stretching or distortion.
- Connecting devices shall be inspected for any signs of wear at their load-bearing points, any excessive play of the load pin within the body halves, nicks, cracks, gouging, distortion of any impaired rotation of the body halves around the load pin.

A sling inspection record should be provided for each sling. Regulatory requirements may require results to be entered on a sling inspection record.

GRADE 80 ALLOY CHAIN



MAX8 Grade 80 (T) chain is designed for chain slings used for industrial applications. It is made from alloy steel, hardened and tempered, with a high resistance to impact and meets the requirements of AS 2321.

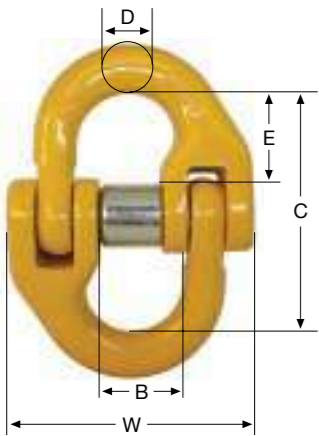
- Available in sizes from 6mm to 32mm
- Made from G80 alloy steel with a safety factor of 4:1
- Test Certificates available on request.



SUITABLE FOR LIFTING APPLICATIONS

PRODUCT CODE FULL DRUM or CUT LENGTH	SIZE mm	WLL tonne	DIMENSIONS mm			WEIGHT kg/mtr
			B	C	D	
CNA06MAX	6	1.1	21	18	6	0.84
CNA08MAX	8	2	28	24	8	1.41
CNA10MAX	10	3.2	35	30	10	2.21
CNA13MAX	13	5.3	46	39	13	3.76
CNA16MAX	16	8	57	48	16	5.64
CNA20MAX	20	12.5	70	60	20	7.78
CNA22MAX	22	15	78	66	22	10.64
CNA26MAX	26	21.2	91	78	26	14.8
CNA32MAX	32	31.5	115	96	32	21.6

CONNECTING LINK



Connecting Link are generally used to connect Oblong Links, Chain, Hooks and other components of Chain Slings.

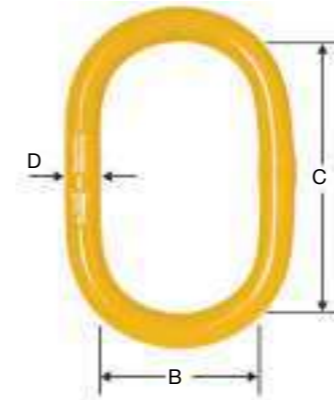
- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates are available on request.
- Conforms to AS 3776



PRODUCT CODE	CHAIN SIZE mm	WLL tonne	WEIGHT KG	DIMENSIONS mm				
				B	C	D	E	W
HAM06MAX	6	1.12	0.08	15	42	7	18	43
HAM08MAX	8	2	0.146	18	60.5	8.5	23.5	55
HAM10MAX	10	3.15	0.3	25	68	11.5	27	69
HAM13MAX	13	5.3	0.7	29	87	15	32	83
HAM16MAX	16	8	1.3	34.5	108.4	19.8	41	102
HAM20MAX	20	12.5	2.1	41	121.5	24	52.5	117
HAM22MAX	22	15	3.2	48	141.5	26	62	143
HAM26MAX	26	21.2	4.5	57.5	158	30	64	163
HAM32MAX	32	31.5	9	67	205	37	86	199



OBLONG LINK



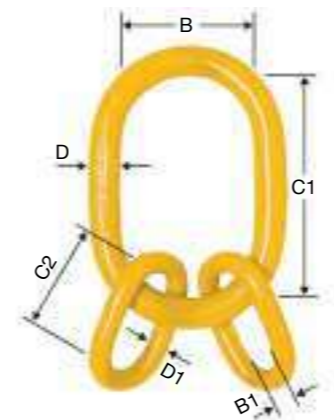
MAX8 Oblong Links are designed to cater for single leg and double leg chain slings or wire rope sling applications.

- Manufactured from G80 alloy steel with a safety factor of 4:1 for chain slings.
- Test Certificates are available on request.
- Conforms to AS 3776



PRODUCT CODE	CHAIN SIZE mm		WLL tonne	WEIGHT kg	DIMENSIONS mm		
	1 LEG	2 LEG			B	C	D
OBLONGLINK08/07MAX	8	6	2.5	0.44	70	120	14
OBLONGLINK10/08MAX	10	8	4	0.76	80	140	17
OBLONGLINK13/10MAX	13	10	7.5	1.48	95	160	22
OBLONGLINK16/13MAX	16	13	15	2.25	110	190	25
OBLONGLINK20/16MAX	20	16	20	5.32	140	240	34
OBLONGLINK22/20MAX	22	20	25	7.04	150	250	38
OBLONGLINK26/22MAX	26	22	30	7.86	150	250	40
OBLONGLINK32/26MAX	32	26	50	15.2	200	300	50
OBLONGLINK36/32MAX	36	32	63	20.54	200	350	55

MULTI OBLONG LINK



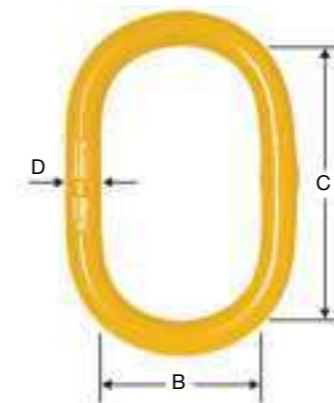
MAX8 Multi Oblong Links are designed as a large ring with two intermediate links catering to two, three and four leg chain slings or wire rope slings applications.

- Manufactured from G80 alloy steel with a safety factor of 4:1 for chain slings, 5:1 for wire rope slings
- Test Certificates are available on request.
- Conforms to AS 3776



PRODUCT CODE	CHAIN SIZE mm	WLL		WEIGHT KG	DIMENSIONS mm					
		4:1	5:1		B	B1	C1	C2	D	D1
OBLONGMULTI08MAX	8	5	4	1.9	90	60	160	100	20	14
OBLONGMULTI10MAX	10	8	6.4	3.3	120	70	220	150	24	17
OBLONGMULTI13MAX	13	17	13.6	6.7	140	90	270	160	28	25
OBLONGMULTI16MAX	16	20	16	9.3	140	100	270	180	32	27
OBLONGMULTI20MAX	20	26	20.8	19.1	160	140	300	270	40	32
OBLONGMULTI22MAX	22	33	26.4	26.6	160	155	340	285	45	36

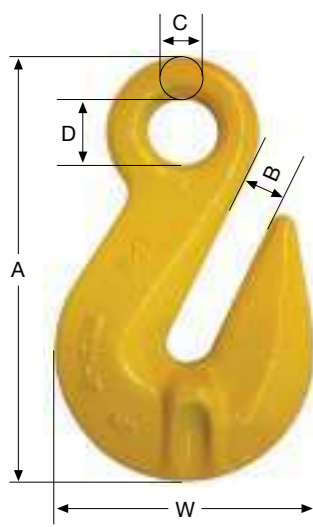
LARGE SERIES OBLONG LINK



Wider and longer, the PWB Large Series Oblong Link is designed for use in both single and 2-leg sling applications.



PRODUCT CODE	CHAIN SIZE mm		WLL tonne	WEIGHT kg	DIMENSIONS mm		
	1 LEG	2 LEG			B	C	D
40617	6 / 7	-	1.9	0.4	70	130	13
40618	8 / 10	7.1 / 8	3.5	0.7	70	135	16
40619	13	10	5.5	1.7	100	200	22
40620	16	13	9.2	3.8	120	240	30
40621	20	16	13.8	5.4	140	280	33
40622	22	20	21.6	8.5	150	300	39
40623	26	22	26	10.5	165	330	42
40624	32	26	36.7	15	180	360	48
41767	32	32	54.5	30	220	410	60



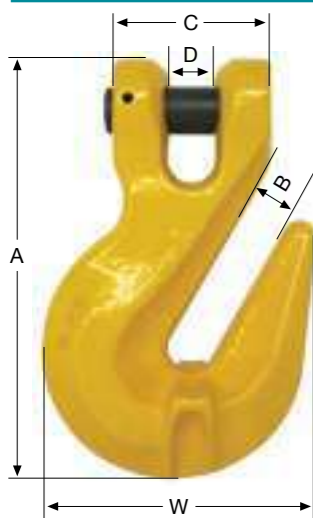
GRAB HOOK - EYE TYPE

MAX8 Eye Type Grab Hooks provide the flexibility to shorten a chain sling or be used for back-hooking. MAX8 Eye Type Grab Hooks are designed for easy attachment to Chain Connectors and feature support lugs which provide no reduction of the working load limits.

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates are available on request.
- Conforms to AS 3776



PRODUCT CODE	CHAIN SIZE mm	WLL tonne	WEIGHT KG	DIMENSIONS mm				
				A	B	C	D	W
GRA06EMAX	6	1.12	0.25	76.5	8	8	13	45
GRA08EMAX	8	2	0.4	106	11	9.5	16	63
GRA10EMAX	10	3.15	0.6	126	13	12	20	79
GRA13EMAX	13	5.3	1.2	156	16	15	25	100
GRA16EMAX	16	8	2.7	193	20	19	28.5	122
GRA20EMAX	20	12.5	4.3	226	25	20	36	150.5
GRA22EMAX	22	15	6.4	269	26	27	42	169
GRA26EMAX	26	21.2	9.8	298	30	32	45	175
GRA32EMAX	32	31.5	19.4	361	38	38	57	189



GRAB HOOK - CLEVIS TYPE

MAX8 Clevis Grab Hooks provide the flexibility to shorten a chain sling or can be used for back-hooking. MAX8 Clevis Grab Hooks are designed for easy attachment directly to the chain and feature supporting lugs which provide no reductions of the working load limit.

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates are available on request.
- Conforms to AS 3776



PRODUCT CODE	CHAIN SIZE mm	WLL tonne	WEIGHT KG	DIMENSIONS mm				
				A	B	C	D	W
GRA06CMAX	6	1.12	0.28	78	8	32	7.5	41
GRA08CMAX	8	2	0.3	108	11	36	9	57
GRA10CMAX	10	3.15	0.95	127	13	46	12	70
GRA13CMAX	13	5.3	1.97	163	16	59	15	89
GRA16CMAX	16	8	3.45	204	20	70	17.5	109
GRA20CMAX	20	12.5	5.3	243	23	80	23	130
GRA22CMAX	22	15	7.8	280	26	98	25.5	151
GRA26CMAX	26	21.2	14.5	309	30	110	30	175

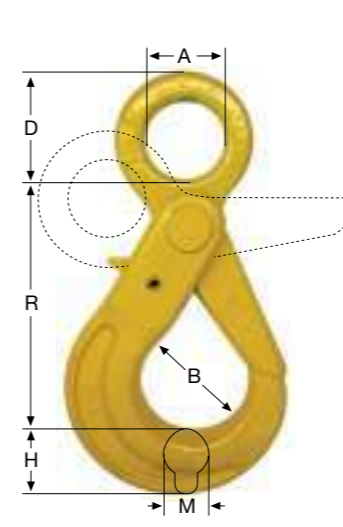


CLEVIS SHORTENING CLUTCH

MAX8 Clevis Shortening Clutches provide the flexibility to shorten a chain sling. Designed for easy attachment directly to the chain, they provide no reduction of the working load limit.



PRODUCT CODE	SIZE	WLL tonne	WEIGHT KG/unit	DIMENSIONS mm				
				A	B	C	E	L
CLU06CMAX	6	1.12	0.17	7.5	7.5	33	26	73.5
CLU08CMAX	7 - 8	2	0.41	9.5	9.5	45	36	101
CLU10CMAX	10	3.15	0.97	13	13	55	48	138
CLU13CMAX	13	5.3	2.01	18	18	75	59	177
CLU16CMAX	16	8	3.32	21	21	93	73	220
CLU20CMAX	20	12.5	6.2	22	22	99	78	238
CLU22CMAX	22	15	8.5	25.5	25.5	118	98	295



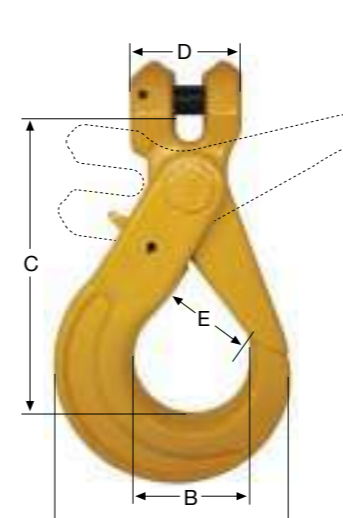
SELF LOCKING HOOK - EYE TYPE

MAX8 Self Locking Eye Hook is a versatile design allowing easy connection to Connecting links, Shackles and Wire Rope Slings. The hook will not open until the trigger on the back is pressed, but allows the hook to remain open until the load is engaged.

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates are available on request.(Conforms to AS 3776)
- Spare trigger kits are available



PRODUCT CODE	CHAIN SIZE mm	WLL tonne	WEIGHT KG	DIMENSIONS mm					
				A	B	D	R	H	W
LATCHLOK06EMAX	6	1.1	0.5	22	34	10.5	110.5	20	15
LATCHLOK08EMAX	8	2	0.8	25	46	12	136	24	20
LATCHLOK10EMAX	10	3.15	1.5	32	58	13	169	28	26
LATCHLOK13EMAX	13	5.3	2.8	40	69	16.5	208	40.5	32.5
LATCHLOK16EMAX	16	8	5.4	50	86	20	254.5	50.5	41
LATCHLOK20EMAX	20	12.5	10	61	92	26.5	290	62	50
LATCHLOK22EMAX	22	15	13.4	72	98	30	320	65	52
LATCHLOK26EMAX	26	21.2	18.5	80	110	34.3	362	75	60
LATCHLOK32EMAX	32	31.5	44.5	105	166	45	472	97	79.5



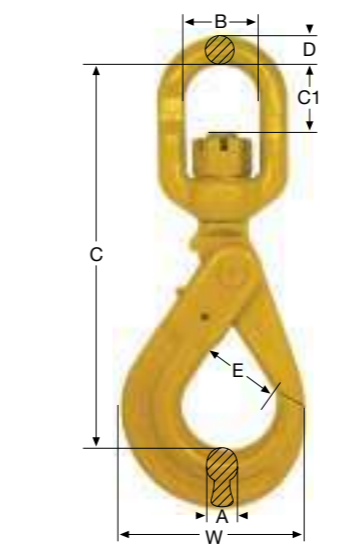
SELF LOCKING HOOK - CLEVIS TYPE

MAX8 Self Locking Clevis Hook will not open until the trigger on the back is pressed, but allows the hook to remain open until the load is engaged. The clevis feature allows quick and easy connection to the chain sling.

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates are available on request.(Conforms to AS 3776)
- Spare trigger kits are available



PRODUCT CODE	CHAIN SIZE mm	WLL tonne	WEIGHT KG	DIMENSIONS mm				
				B	C	D	E	W
LATCHLOK06CMAX	6	1.1	0.4	34	96	32	28	69
LATCHLOK08CMAX	8	2	0.7	46	118.5	36	36	88
LATCHLOK10CMAX	10	3.15	1.5	58	144	46	45	107
LATCHLOK13CMAX	13	5.3	2.7	69	181.5	59	50	138
LATCHLOK16CMAX	16	8	5.6	86	216	70	60	182
LATCHLOK20CMAX	20	12.5	10.5	92	238	81	72	204
LATCHLOK22CMAX	22	15	13.8	98	276	98	78	205
LATCHLOK26CMAX	26	21.2	18.2	110	311	118	106	240



SELF LOCKING SWIVEL HOOK

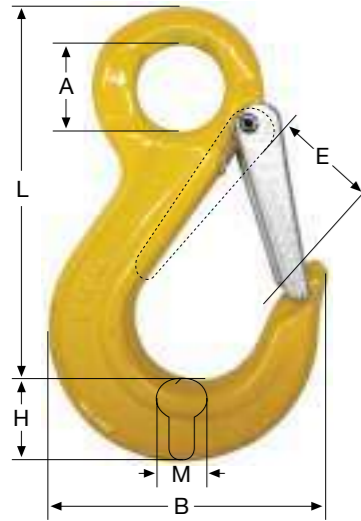
MAX8 Self Locking Swivel Hooks have a ball bearing swivel to allow the hook to swivel under load reducing the twist of the sling. Designed with enlarged eye for passing larger shackles without disassembling the hook.

- Marked with chain size, product ID, grade, with manufacturer branding
- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates available upon request (Conforms to AS 3776)
- Spare trigger kits and swivel bow head are available



PRODUCT CODE	CHAIN SIZE mm	WLL tonne	WEIGHT KG	DIMENSIONS mm						
				A	B	C	C1	D	E	W
LATCHLOK06SW	6	1.1	0.71	15	32.5	164.5	35	11.5	28	69.7
LATCHLOK08SW	8	2	1.12	20	36	204	42	13	36.5	88
LATCHLOK10SW	10	3.15	2	26	42	240.5	50	15.5	45	107.7
LATCHLOK13SW	13	5.3	4	32.5	50	284.5	60	17	53.6	137
LATCHLOK16SW	16	8	7.3	38	61	350.5	65	21.5	61	165.5

SLING HOOK - EYE TYPE



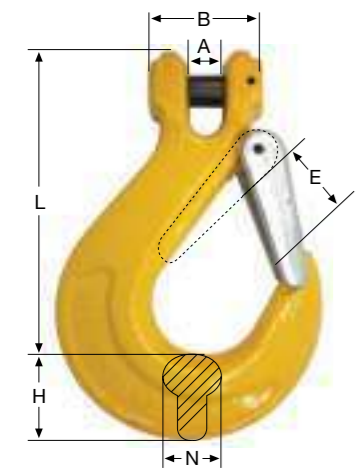
MAX8 Eye Type Sling Hooks are a general purpose unit suitable for most sling applications. The eye allows easy chain attachment using connecting links, with the cast springloaded latch providing added safety.

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates available upon request (Conforms to AS 3776)



PRODUCT CODE	CHAIN SIZE mm	WLL tonne	WEIGHT KG	DIMENSIONS mm					
				A	B	E	H	M	L
SAFETYHOOK06EMAX	6	1.1	0.3	20	74	22	20.5	18	122
SAFETYHOOK08EMAX	8	2	0.5	25.5	83	26	23.5	18	138.5
SAFETYHOOK10EMAX	10	3.2	0.8	32.5	107	34	30	20	176.5
SAFETYHOOK13EMAX	13	5.3	1.9	39.5	134.3	41	37.5	29.5	218
SAFETYHOOK16EMAX	16	8	3.4	50	157.5	44	42.5	34	260
SAFETYHOOK20EMAX	20	12.8	5.3	60	189	52	53	44	310
SAFETYHOOK22EMAX	22	15	8.9	68	239	60	74	50	375.5
SAFETYHOOK26EMAX	26	21.2	13.4	75	245	71	83	63	412
SAFETYHOOK32EMAX	32	31.5	19	88	250	102	95	76	446

SLING HOOK - CLEVIS TYPE



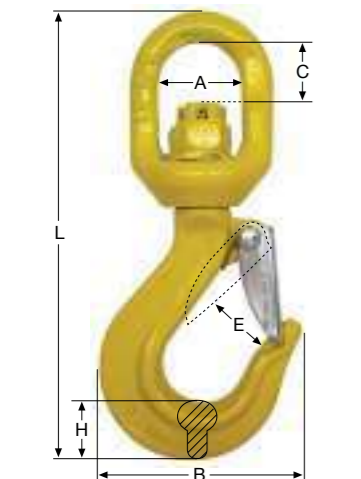
MAX8 Clevis Sling Hooks are a general purpose unit suitable for most sling applications. The eye allows easy chain attachment using connecting links, with the cast springloaded latch providing added safety.

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates available upon request (Conforms to AS 3776)



PRODUCT CODE	CHAIN SIZE mm	WLL tonne	WEIGHT KG	DIMENSIONS mm					
				A	B	E	N	H	L
SAFETYHOOK06CMAX	6	1.12	0.3	7.5	32	22	18	20.5	121
SAFETYHOOK08CMAX	8	2	0.5	9	36	25.5	18	23.5	137
SAFETYHOOK10CMAX	10	3.15	0.95	12	46	34	20	30	175.5
SAFETYHOOK13CMAX	13	5.3	1.9	15	59	41.5	29.5	37.5	210.5
SAFETYHOOK16CMAX	16	8	3.45	17.5	70	46	34	42.5	248.5
SAFETYHOOK20CMAX	20	12.5	6.5	23	80	52	45	54	309
SAFETYHOOK22CMAX	22	15	9.65	25.5	98	60	48	76	375.5

SWIVEL SLING HOOK



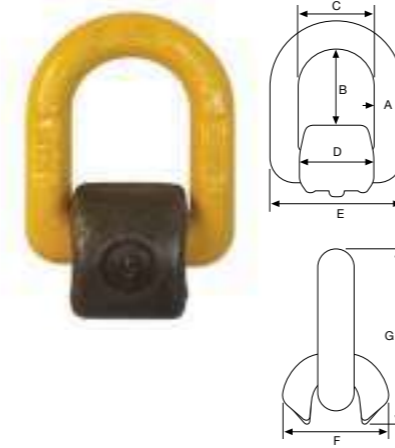
MAX8 Swivel Sling Hooks are designed with a plain bush bearing swivel allowing the hook to swivel under load and comes complete with heavy duty safety latch.

- Marked with chain size, product ID, grade, with manufacturer branding
- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates available upon request (Conforms to AS 3776)
- Spare latch kits are available



PRODUCT CODE	CHAIN SIZE mm	WLL tonne	WEIGHT KG	DIMENSIONS mm					
				A	B	C	E	H	L
SAFETYHOOK08SW	8	2	0.85	36	88.5	26	27	23.5	190
SAFETYHOOK10SW	10	3.15	1.54	42	104.5	34	32	29.5	233
SAFETYHOOK13SW	13	5.3	3.04	49	135	41	40	38	291.5
SAFETYHOOK16SW	16	8	5.36	61	161	53	45	45.4	352

WELD ON LIFTING LUG



MAX8 Weld on Lifting Lugs can be welded onto any carbon steel surface as a lifting point, as a fixed anchor point for spreader beam attachment, or as an anchor point for load restraint applications.

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates available upon request
- Conforms to AS 3776



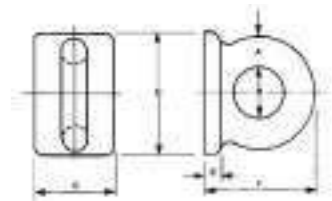
PRODUCT CODE	WLL tonnes	DIMENSIONS mm						
		A	B	C	D	E	F	G
WLR1T	1	14	40	40	35	67	40	83
WLR2T	2	15	40	48	40	71	41	86
WLR3T	3	17	46	50	42	79	46	102
WLR5T	5	21	56	55	50	97	60	123

DECK or EYE PLATES



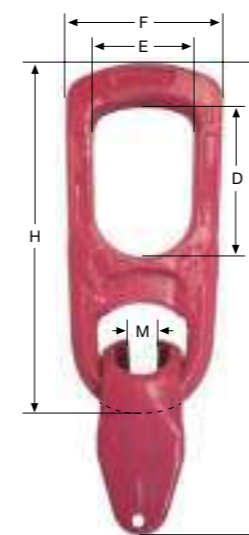
HW13 Reectangular Base (Admiralty Pattern)

- Weld-on Lifting Lug, ideal for lifting or lashing
- Material: BS970 - 150M19 (Normalised)



Part No.	HWa13/1	HWa13/2	HWa13/3	HWa13/4	HWa13/5	HWa13/6	HWa13/7	HWa13/8	HWa13/9	HWa13/10	HWa13/12
Dia. of eye material A (mm)	10	12.5	16	19	22	25	28	32	35	38	50
Dia. of eye B (mm)	20	25	32	38	44	50	57	64	69	76	100
Base plate C (mm)	25	35	45	50	60	70	75	85	95	100	140
Base plate D (mm)	45	60	70	85	100	115	130	145	158	170	130
Base plate E (mm)	6	8	10	12	12.5	16	17	19	21	22	30
Total Height F (mm)	38	50	64	76	89	100	114	128	140	152	203
Proof Load (Tonnes)	2	3.5	5.5	7.5	9.7	13	16	20	24	29	50
Weight each (kgs)	0.14	0.31	0.45	0.79	1.36	1.82	2.95	3.86	5.11	6.58	14.98
WLL @ 5:1 (Tonnes)	1	1.75	2.75	3.75	4.85	6.5	8	10	12	14.5	25

CONCRETE PANEL LIFTING EYES



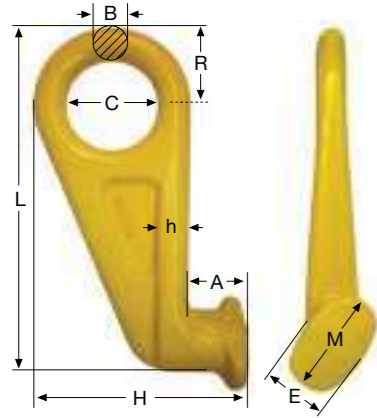
MAX8 lifting Eyes are a versatile unit for lifting pre-cast concrete products such as construction panels, pipes and columns.

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates are available with each unit
- Conforms to AS 3850



PRODUCT CODE	WLL tonne	WEIGHT KG/unit	DIMENSIONS mm					
			D	E	F	H	M	L
SL1300MAX	1.3	0.89	70.5	45	73	157	11.5	181
SL2500MAX	2.5	1.3	85	57	88	190	16	220
SL5000MAX	5	3.24	88	69	110	233	22	271
SL10000MAX	10	10	116	83	161	336.5	30	386
SL20000MAX	20	20.37	133.5	107.5	182	437	42	497
SL32000MAX	32	46	189	162	272	570	54	755

CONTAINER HOOK - EYE TYPE



MAX8 Eye Type Container Hook are suitable for lifting containers by connecting to twist lock pockets, The large diameter eye allows most sized hooks to fit. They are available in left and right hand configurations.

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates available upon request
- Conforms to AS 3776



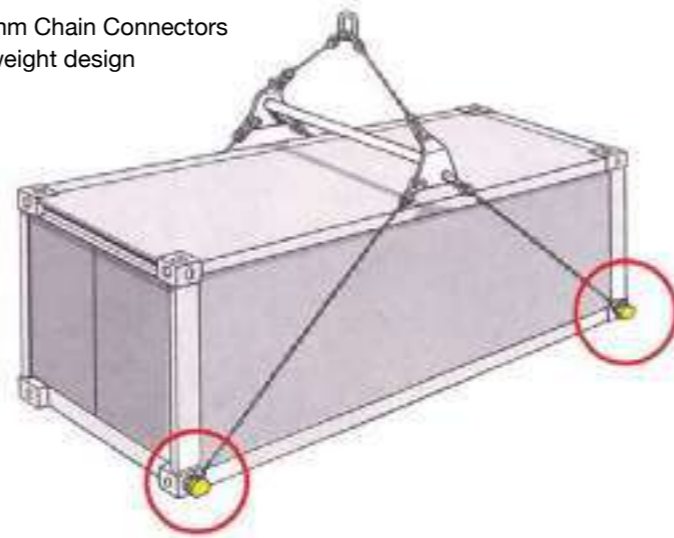
PRODUCT CODE	CHAIN SIZE G80 (mm)	WLL tonne	WEIGHT KG	DIMENSIONS mm								
				A	B	C	E	R	M	L	H	h
CONLHMAX	20	12.5	4	46	25	70	48	60	75	265	166	25
CONRHMAX	20	12.5	4	46	25	70	48	60	75	265	166	25

CONTAINER LIG - LOW PROFILE

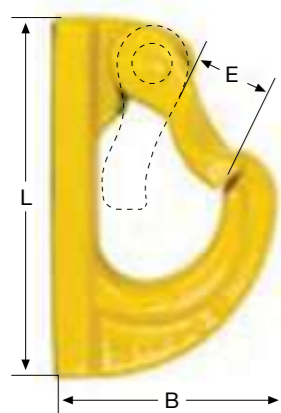


22T WLL/PAIR

- Suits 16mm - 22mm Chain Connectors
- Low profile, lightweight design
- Tested & certified



WELD ON EXCAVATOR HOOK



MAX8 Weld on Excavator Hook are a versatile hook for lifting and spreader beam and as a fixed anchor point in general lifting applications.

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificate available on request (Conforms to AS3776)
- Welding instructions supplied with each unit



PRODUCT CODE	CHAIN SIZE mm	WLL tonne	WEIGHT KG/unit	DIMENSIONS mm		
				B	E	L
EXC1T	6	1.1	0.35	53	18	87
EXC2T	8	2.0	0.55	63.5	26	112
EXC3T	10	3.2	0.87	75	30	127.5
EXC5T	13	5.3	1.75	92.5	35	160
EXC8T	16	8.0	3.0	106	40	180

RUD - RINGS, EYES & HOOKS



WPP-S Weld-on universal connection (swivelling).

Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	G (mm)	Weight (kgs)
WPP-S-0.63t	630	13	75	18	40	115	40	0.4
WPP-S-1.5t	1500	20	97	25	46	147	50	1.0
WPP-S-2.5t	2500	28	126	30	61	187	61	1.5
WPP-S-4t	4000	36	150	35	80	227	77	3.3
WPP-S-5t	5000	37	174	40	95	267	93	7.1
WPP-S-8t	8000	49	208	48	100	310	102	8.2



RBG/VRBG Eye plate, bolt on.

Type	WLL (kgs)	D (mm)	L (mm)	Bolt Size	Weight (kgs)
RBG-3	3200	48	178	M16x50	0.90
VRBG-16	16000	90	270	M30x90	7.8
VRBG-30	30000	130	400	M30x100	67
VRBG-50	50000	230	650	M36x120	210

VLBS Weld on load rings.

With or without (W/S) captive position holding spring.

Type	WLL (kgs)	C (mm)	E (mm)	F (mm)	Weight (kgs)
VLBS-1.5	1500	38	40	13.5	0.35
VLBS-2.5	2500	45	48	13.5	0.5
VLBS-4	4000	51	52	16.5	0.80
VLBS-6.7	6700	67	73	22.5	1.90
VLBS-10	10000	67	71	26.5	2.90

Type	WLL (kgs)	C (mm)	E (mm)	F (mm)	Weight (kgs)
VLBS-W/S-1.5	1500	38	40	13.5	0.35
VLBS-W/S-2.5	2500	45	48	13.5	0.5
VLBS-W/S-4	4000	51	52	16.5	0.80
VLBS-W/S-6.7	6700	67	73	22.5	1.90
VLBS-W/S-10	10000	67	71	26.5	2.90
VLBS-W/S-16	16000	100	105	26.0	6.80

VRBK Eye plate for corners.

Ready for welding.

Type	WLL (kgs)	B (mm)	C (mm)	F (mm)	Weight (kgs)
VRBK-4	4000	135	48	16	0.90
VRBK-6.7	6700	174	60	20	1.30
VRBK-10	10000	208	65	22	4.30

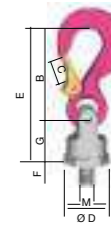
WPP-B Weld-on eye connection (swivelling).

Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	G (mm)	Weight (kgs)
WPP-B-0.63t	630	9	65	35	40	105	40	0.35
WPP-B-1.5t	1500	11	65	35	46	115	50	0.6
WPP-B-2.5t	2500	13	74	40	61	135	61	1.0
WPP-B-4t	4000	16	95	45	80	172	77	2.3
WPP-B-5t	5000	21	130	60	95	223	93	4.7
WPP-B-8t	8000	24	140	65	100	242	102	5.3

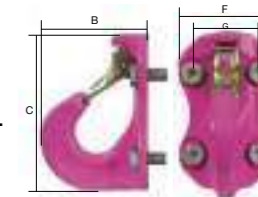


PP-S Bolt-on universal connection (swivelling) metric thread.

Type	WLL (kgs)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)	M (mm)	Weight (kgs)
PP-S-0.63t-M12	630	75	18	40	18	41	12	0.4
PP-S-1.5t-M16	1500	97	25	46	5	50	16	1.0
PP-S-2.5t-M20	2500	126	30	61	30	61	20	1.7
PP-S-4t-M24	4000	150	35	78	36	77	24	3.5
PP-S-5t-M30	5000	174	40	95	45	93	30	7.2
PP-S-8t-M36	8000	208	48	100	54	102	36	9.2



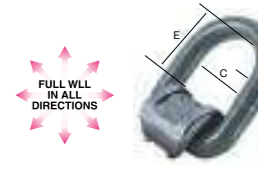
VABH-B Excavator Hook bolt on. Extremely robust forged safety latch.



Type	WLL (kgs)	B (mm)	C (mm)	F (mm)	G (mm)	H (mm)	Weight (kgs)
VABH-B-1.5t	1500	78	117	70	48	60	0.78
VABH-B-2.5t	2500	101	148	85	60	75	1.73
VABH-B-4t	4000	122	171	104	70	90	3.0
VABH-B-6.7t	6700	156	208	120	85	110	5.6

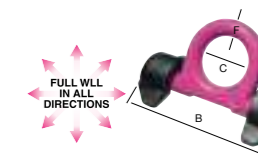
LBS (S/S) Stainless steel load ring. Ready for welding.

Type	WLL (kgs)	C (mm)	E (mm)	F (mm)	Weight (kgs)
LBS(S/S)-1	500	36	39	13.5	0.30
LBS(S/S)-3	1000	50	50	16.5	0.60
LBS(S/S)-5	2000	65	72	22.5	1.60



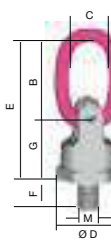
VRBS Weld on eye plate. Ready for welding.

Type	WLL (kgs)	B (mm)	C (mm)	F (mm)	Weight (kgs)
VRBS-4.0	4000	135	48	16	0.8
VRBS-6.7	6700	170	60	20	1.80
VRBS-10	10000	195	65	22	2.80
VRBS-16	16000	266	90	30	6.60
VRBS-31.5	31500	375	130	42	19.0
VRBS-50	50000	620	230	70	85.0



PP-B Bolt-on eye connection (swivelling) metric thread.

Type	WLL (kgs)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)	M (mm)	Weight (kgs)
PP-B-0.63t-M12	630	65	35	40	18	41	12	0.35
PP-B-1.5t-M16	1500	65	35	46	24	50	16	0.6
PP-B-2.5t-M20	2500	75	40	61	30	61	20	1.1
PP-B-4t-M24	4000	95	45	78	36	78	24	2.4
PP-B-5t-M30	5000	130	60	95	45	93	30	5.2
PP-B-8t-M36	8000	140	65	100	54	102	36	6.3

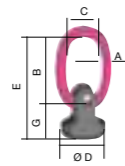


RUD - RINGS, EYES & HOOKS



WPPH-B Weld-on eye connection (non-swivelling)

Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	G (mm)	Weight (kgs)
WPPH-B-0.63t	630	9	65	35	34	99	34	0.3
WPPH-B-1.5t	1500	11	65	35	40	109	44	0.5
WPPH-B-2.5t	2500	13	74	40	53	127	53	0.9
WPPH-B-4t	4000	16	95	45	68	163	67	2.2
WPPH-B-5t	5000	21	130	60	83	209	79	4.5
WPPH-B-8t	8000	24	140	65	88	228	88	5.1



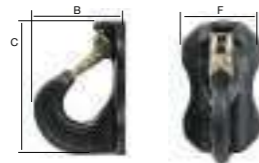
WPPH-S Weld-on universal connection (non-swivelling)

Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	G (mm)	Weight (kgs)
WPPH-S-0.63t	630	13	75	18	34	109	34	0.35
WPPH-S-1.5t	1500	20	97	25	141	44	44	0.95
WPPH-S-2.5t	2500	28	126	30	53	179	53	1.4
WPPH-S-4t	4000	36	150	35	68	217	67	3.2
WPPH-S-5t	5000	37	174	40	83	253	79	6.9
WPPH-S-8t	8000	49	208	48	88	296	88	8.0



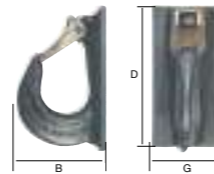
VABH-W Weld-on excavator hook

Type	WLL (kgs)	B (mm)	C (mm)	F (mm)	Weight (kgs)
VABH-W 1.5t	1500	78	117	70	0.8
VABH-W 2.5t	2500	101	148	85	1.8
VABH-W 4t	4000	122	171	104	3.1
VABH-W 6.7t	6700	156	208	120	5.9



VCGH-S High capacity weld-on excavator hook

Type	WLL (kgs)	B (mm)	C (mm)	F (mm)	Weight (kgs)
VCGH-S 16	10000	141	220	100	5.0
VCGH-S 20	16000	187	288	120	8.4
VCGH-S 22	20000	195	292	120	14.5



VWBG-V Bolt on swivel ring bolt 360° swivelling, 180° pivoting

Type	WLL (kgs)	A (mm)	C (mm)	F* (mm)	Weight (kgs)
VWBG-V-0.3 M8	300	8	29	13	0.18
VWBG-V-0.45 M10	450	8	29	17	0.29
VWBG-V-0.6 M12	600	10	35	21	0.41
VWBG-V-1.3 M16	1300	13	38	25	0.59
VWBG-V-2.0 M20	2000	13	35	33	1.42
VWBG-V-3.5 M24	3500	18	40	40	2.63
VWBG-V-5.0 M30	5000	22	50	50	5.09

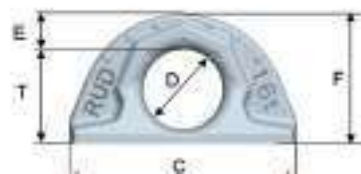


VWBG Bolt on swivel ring bolt 360° swivelling, 180° pivoting, with ball bearing

Type	WLL (kgs)	A (mm)	C (mm)	F (mm)	Weight (kgs)
VWBG-8 M36	8000	22	50	54	4.67
VWBG-12 M42	12000	26	65	63	6.1
VWBG-13 M48	13000	26	65	68	6.37
VWBG-16 M56	16000	32	70	84	11.2
VWBG-16 M64	16000	32	70	96	11.4
VWBG-40 M90	40000	40	80	135	33.16



ABA WELD-ON LIFTING POINT



- Manufactured in Germany using high tensile CrNiMo - steel
- 100% Electro-magnetic crack detection tested
- Complies with DIN 5691 and EN 1677
- 4 :1 Safety factor on Working Load Limit
- Temperature Range -40°C to 100°C no reduction in WLL
- Full working load in all directions
- Patented wear markings on the inside and on the outside

Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	T (mm)	Weight (kgs)
ABA 1.6	1600	30	16	100	35	16	57	41.5	.44
ABA 3.2	3200	41	23	137	50	21	80	59	1.1
ABA 5	5000	51	27	172	60	27.5	99	71.5	2.3
ABA 10	10000	70	38	228	80	35	130	95	5.3
ABA 20	20000	90	52	272	115	40	175	135	10.7
ABA 31.5	31500	108	64	320	130	50	204	154	18.3



RUD - HOOKS, CLAWS & COUPLINGS



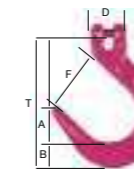
VCGH VIP-Cobra Hook with safety latch

Type	WLL (kgs)	F (mm)	G (mm)	T (mm)	Weight (kgs)
VCGH-6	1500	25	72	76	0.4
VCGH-8	2500	30	95	97	0.9
VCGH-10	4000	35	118	108	1.5
VCGH-13	6700	40	135	126	2.7
VCGH-16	10000	48	161	152	4.3
VCGH-20	16000	63	218	195	10.0
VCGH-22	20000	63	223	198	11.5
VCGH-28	31500	90	295	275	26.4



VWH Clevis foundry hook in VIP quality

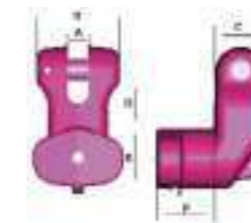
Type	WLL (kgs)	Chain (mm)	A (mm)	B (mm)	D (mm)	F (mm)	T (mm)	Weight (kgs)
VWH-6	1500	6	30	22	30	50	87	0.5
VWH-8	2500	8	40	29	40	64	115	0.9
VWH-10	4000	10	46	37	50	76	130	1.7
VWH-13	6700	13	51	45	64	90	168	3.0
VWH-16	10000	16	64	56	75	100	190	5.7
VWH-20*	16000	20	96	80	102	136	277	15.1
VWH-22*	20000	22	96	80	102	136	277	15.1



* Weight optimised in Skeletto-Technology and patented wear marks.

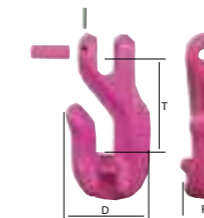
VCH VIP Container Hook Strong and compact with a maximum inclination angle of 45°

Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Weight (kgs)
VCH-SL	10000	18	71	42	40	50	47	2.4



VWH VIP Clevis Grab Hook

Type	WLL (kgs)	Chain (mm)	D (mm)	F (mm)	T (mm)	Weight (kgs)
VWH-6	1500	6	43	23	50	0.25
VWH-8	2500	8	54	33	64	0.35
VWH-10	4000	10	68	42	80	0.80
VWH-13	6700	13	87	47	103	2.2
VWH-16	10000	16	108	57	125	3.5
VWH-20	16000	20	138	76	162	8.4
VWH-22	20000	22	151	83	179	11.0



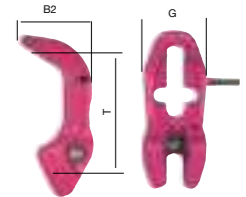
VAGH Clevis self locking design in VIP quality

Type	WLL (kgs)	Chain (mm)	E (mm)	F (mm)	T (mm)	Weight (kgs)
VAGH (S)-8	2500	8	91	43	117	0.9
VAGH (S)-10	4000	10	109	47	140	1.9
VAGH (S)-13	6700	13	138	64	169	3.4



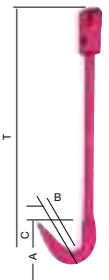
VMVK Shortening claw in VIP quality

Type	WLL (kgs)	Chain (mm)	B2 (mm)	T (mm)	G (mm)	Weight (kgs)
VMVK-6	1500	6	45	66	44	0.85
VMVK-8	2500	8	56	88	55	1.0
VMVK-10	4000	10	75	110	72	1.5
VMVK-13	6700	13	92	143	96	3.6
VMVK-16	10000	16	128	176	116	6.2
VMVK-20	16000	20	137	209	123	11.5
VV-28	31500	28	130	170	-	16.9



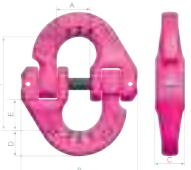
VBMHWA VIP swivelling Bale Hook

Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	T (mm)	Weight (kgs)
VBMHWA-8	2500	35	18	61	381	2.5
VBMHWA-10	4000	35	18	61	381	2.5

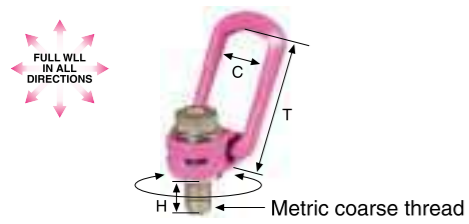


VVS VIP Chain Coupling

Type	WLL (kgs)	Chain (mm)	B (mm)	D (mm)	T (mm)	Weight (kgs)
VVS-6	1500	6	50	14	40	0.1
VVS-8	2500	8	64	19	53	0.2
VVS-10	4000	10	80	23	70	0.4
VVS-13	6700	13	96	27	81	0.7
VVS-16	10000	16	125	34	104	1.5
VVS-20	16000	20	155	41	124	3.0
VVS-22	20000	22	170	46	133	3.9
VVS-28	31500	28	228	67	189	10.6

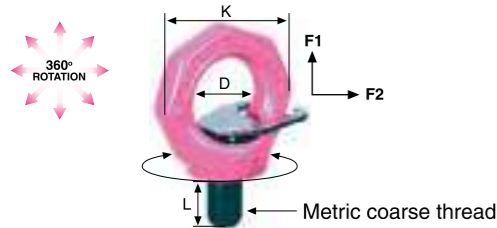


VLBG - RING BOLT



TYPE	WLL (kgs)	C mm	H mm	T mm	WEIGHT (kgs)
VLBG-0.3t-M8	300	34	11	75	0.4
VLBG-0.63t-M10	630	34	16	75	0.4
VLBG-1t-M12	1000	34	21	75	0.4
VLBG-1.5t-M16	1500	36	24	85	0.5
VLBG-2.5t-M20	2500	54	32	110	1.3
VLBG-4t-M24	4000	54	37	125	1.5
VLBG-4t-M27	4000	65	39	147	3.1
VLBG-5t-M30	5000	65	49	147	3.3
VLBG-7t-M36	7000	65	52	146	3.4
VLBG-8t-M36	8000	82	63	197	5.8
VLBG-10t-M42	10000	80	73	162	6.4
VLBG-15t-M42	15000	100	63	222	10.7
VLBG-20t-M48	20000	100	73	222	11.1

VRS-F - STARPOINT EYEBOLT



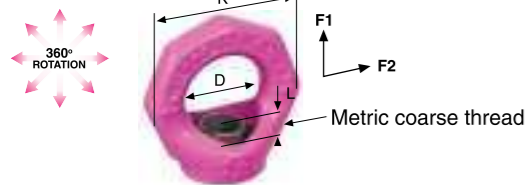
Metric thread, with locking component, 360° rotation

TYPE	WLL (F1) (kgs)	WLL (F2) (kgs)	D mm	K mm	L mm	WEIGHT (kgs)
VRS-F-M8	1000	400	25	47	15	0.10
VRS-F-M10	1000	400	25	47	15	0.12
VRS-F-M12	2000	750	30	56	18	0.18
VRS-F-M16	4000	1500	35	65	24	0.32
VRS-F-M20	6000	2300	40	75	30	0.51
VRS-F-M24	8000	3200	48	90	36	0.92
VRS-F-M30	12000	4500	60	112	45	1.80
VRS-F-M36	16000	7000	72	135	54	3.35
VRS-F-M42	24000	9000	82	158	63	5.14
VRS-F-M48	32000	12000	94	180	72	7.80

UNC Imperial thread, with locking component, 360° rotation

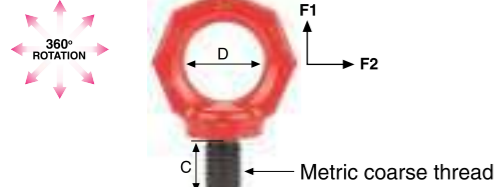
TYPE	WLL (F1) (kgs)	WLL (F2) (kgs)	D mm	K mm	L mm	WEIGHT (kgs)
VRS-F-3/8" UNC	1000	400	25	47	15	0.10
VRS-F-1/2" UNC	2000	750	30	56	18	0.18
VRS-F-5/8" UNC	4000	1500	35	63	24	0.32
VRS-F-3/4" UNC	6000	2300	40	75	30	0.51
VRS-F-7/8" UNC	6000	2300	40	75	32	0.51
VRS-F-1" UNC	8000	3200	48	90	36	0.92
VRS-F-1 1/4" UNC	12000	4500	60	112	45	1.80
VRS-F-1 1/2" UNC	16000	7000	72	135	54	3.35
VRS-F-1 3/4" UNC	24000	9000	82	158	63	5.14
VRS-F-2" UNC	32000	12000	94	180	72	7.80

VRM - STARPOINT EYENUT



TYPE	WLL (F1) (kgs)	WLL (F2) (kgs)	D mm	K mm	L mm	WEIGHT (kgs)
VRM-M8	1000	400	25	47	12	0.10
VRM-M10	1000	400	25	47	15	0.10
VRM-M12	2000	750	30	56	18	0.20
VRM-M16	4000	1500	35	65	24	0.30
VRM-M20	6000	2300	40	75	30	0.50
VRM-M24	8000	3200	48	90	36	0.90
VRM-M30	12000	4500	60	112	45	0.70

RS - HIGH TENSILE EYEBOLT



TYPE	WLL (F1) (kgs)	WLL (F2) (kgs)	C mm	D mm	WEIGHT (kgs)
RS-M6	400	100	12	25	0.10
RS-M8	800	200	12	25	0.10
RS-M10	1000	250	15	25	0.12
RS-M12	1600	400	18	30	0.18
RS-M14	3000	750	21	35	0.30
RS-M16	4000	1000	24	35	0.30
RS-M20	6000	1500	30	40	0.47
RS-M24	8000	2000	36	50	0.89
RS-M30	12000	3000	45	60	1.57
RS-M36	16000	4000	54	90	6.20
RS-M42	24000	6000	63	90	6.40
RS-M48	32000	8000	68	90	6.60



RUD - GRADE 100 ALLOY CHAIN



Grade 100 Alloy Chain - RUD: The most technologically advanced alloy sling chain system available - with 25% higher working load capacity and greater wear resistance than Grade 80 (T) chain. The system comes with an extensive range of fittings, to offer the most innovative chain sling system available.

VIP - Special Quality: For single and multiple strand sling chains with different angles of inclination for symmetrical loading of the strands. Available in sizes 4mm through to 28mm. Every chain link is stamped with the VIP logo, plus serial and batch numbers are stamped every running metre. A higher visible colour which discolours under

high temperatures and a dual process surface coating for increased corrosion resistance.

VIP Overheating Indication: This special fluorescent pink powder coating permanently changes colour at increased temperatures. Colour black signifies and application of more than 400°C (715°F). Further use is then prohibited. Due to a special heat treatment developed by RUD, the high-dynamic VIP chains are more resistant to external mechanical wear friction and damage. Therefore, longer service life is guaranteed. All RUD-VIP chains and components are electromagnetically crack detected to ensure greater safety.



Working Load Limits (WLL) in tonnes

RUD - Lifting Systems in Special Quality VIP 100 Grade 100 Chain Dia. (mm)	Single Leg Slings		Slings of 2, 3 or 4 Legs						Endless Slings			
	Straight / Adj. Sling	Reeved Sling	Straight Multileg Slings			Reeved Sling			Basket Sling			Reeved Sling
			60°	90°	120°	60°	90°	120°	60°	90°	120°	
VIP 4	0.63	0.47	1.09	0.89	0.63	0.82	0.66	0.47	0.82	0.66	0.47	0.94
VIP 6	1.5	1.1	2.6	2.1	1.5	1.9	1.6	1.1	1.9	1.6	1.1	2.2
VIP 8	2.5	1.9	4.3	3.5	2.5	3.2	2.6	1.8	3.2	2.6	1.8	3.7
VIP 10	4.0	3.0	6.9	5.6	4.0	5.2	4.2	3.0	5.2	4.2	3.0	6.0
VIP 13	6.7	5.0	11.6	9.4	6.7	8.7	7.1	5.0	8.7	7.1	5.0	10.0
VIP 16	10.0	7.5	17.3	14.1	10.0	13.0	10.6	7.5	13.0	10.6	7.5	15.0
VIP 20	16.0	12.0	27.7	22.5	16.0	20.8	16.9	12.0	20.8	16.9	12.0	24.0
VIP 22	20.0	15.0	34.6	28.2	20.0	26.0	21.2	15.0	26.0	21.2	15.0	30.0
VIP 28	31.5	23.6	54.5	44.4	31.5	41.0	33.4	23.6	41.0	33.4	23.6	47.2
Load Factor >	1	0.75	1.73	1.41	1	1.3	1.06	0.75	1.3	1.06	0.75	1.5
Temperature Considerations	When using Chain Slings at temperatures > 200°C (392°F), the WLL has to be reduced.											
	Working Load in % at temperatures of:											
	-40°C up to +200°C				200°C up to 300°C				300°C up to 380°C			
100%				90%				60%				

Assembled Slings VCGH

- Manufactured in standard lengths
- Fully assembled with VCGH clevis safety hooks
- Complete with clevis grab hooks, stainless steel tag and test certificate
- Further lengths available upon request



Assembled Slings VAGH

- Manufactured in standard lengths
- Fully assembled with VAGH clevis self locking hooks
- Complete with clevis grab hooks, stainless steel tag and test certificate
- Further lengths available upon request



Chain (mm)	Leg (m)	1 Leg		2 Legs	
		WLL	Product Code	Product Code	WLL @ 60°
8	1	2.5t	7771045	7771053	4.3t
8	2	2.5t	7771046	7771054	4.3t
10	3	2.5t	7771047	7771055	4.3t
10	1	4.0t	7771048	7771056	6.9t
10	2	4.0t	7771049	7771057	6.9t
10	3	4.0t	7771050	7771058	6.9t
10	4	4.0t	7771099	7771059	6.9t
10	6	4.0t	7771100	7771060	6.9t
13	3	6.7t	7771051	7771061	11.6t
13	6	6.7t	7771052	7771062	11.6t

Chain (mm)	Leg (m)	1 Leg		2 Legs	
		WLL	Product Code	Product Code	WLL @ 60°
8	1	2.5t	7771063	7771071	4.3t
8	2	2.5t	7771064	7771072	4.3t
10	3	2.5t	7771065	7771073	4.3t
10	1	4.0t	7771066	7771074	6.9t
10	2	4.0t	7771067	7771075	6.9t
10	3	4.0t	7771068	7771076	6.9t
10	4	4.0t	7771101	7771077	6.9t
10	6	4.0t	7771102	7771078	6.9t
13	3	6.7t	7771069	7771079	11.6t
13	6	6.7t	7771070	7771080	11.6t

RUD - GRADE 120 ALLOY CHAIN



Grade 120 Alloy Chain - RUD: The evolution in chain steel and in the production process enables the quantum leap to a new "class of its own". With 60% higher working load capacity and greater wear resistance than Grade 80 (T) chain.

ICE - Special Quality: For single and multiple strand sling chains with different angles of inclination for symmetrical loading of the strands. Available in sizes 6mm, 8mm, 10mm 13mm and 16mm. Every chain link is stamped with the ICE logo, plus serial and batch numbers are stamped every running metre. The reduction in weight of more than 30% is a considerable factor in work ergonomics. A higher visible colour which discolours under high

temperatures and a dual process surface coating for increased corrosion resistance.

ICE Overheating Indication: Extremely temperature resistant -60°C up to +300°C. This special fluorescent traffic purple powder coating permanently changes colour at increased temperatures. Colour black signifies and application of more than 400°C (715°F). Further use is then prohibited. Due to a special heat treatment developed by RUD, the high-dynamic ICE chains are more resistant to external mechanical wear friction and damage. Therefore, longer service life is guaranteed. All RUD-ICE chains and components are electromagnetically crack detected to ensure greater safety.



Working Load Limits (WLL) in tonnes

RUD - Lifting Systems in Special Quality ICE 120 Grade 120 Chain Dia. (mm)	Single Leg Slings		Slings of 2, 3 or 4 Legs						Endless Slings			
	Straight / Adj. Sling	Reeved Sling	Straight Multileg Slings			Reeved Sling			Basket Sling			Reeved Sling
			60°	90°	120°	60°	90°	120°	60°	90°	120°	
ICE 6	1.8	1.3	3.1	2.5	1.8	2.3	1.9	1.3	2.3	1.9	1.3	2.7
ICE 8	3.0	2.2	5.2	4.2	3.0	3.9	3.2	2.2	3.9	3.2	2.2	4.5
ICE 10	5.0	3.7	8.6	7.0	5.0	6.5	5.3	3.7	6.5	5.3	3.7	7.5
ICE 13	8.0	6.0	13.8	11.3	8.0	10.4	8.5	6.0	10.4	8.5	6.0	12.0
ICE 16	12.5	9.4	21.6	17.6	12.5	16.2	13.2	9.4	16.2	13.2	9.4	18.7
Load Factor >	1	0.75	1.73	1.41	1	1.3	1.06	0.75	1.3	1.06	0.75	1.5
Temperature Considerations	When using Chain Slings at temperatures > 200°C (392°F), the WLL has to be reduced.											
	Working Load in % at temperatures of:											
	-60°C up to +200°C			200°C up to 250°C			250°C up to 300°C					
	100%		90%			60%						

Assembled Slings

ICE-STAR

- Manufactured in standard lengths
- Fully assembled with clevis sling hooks
- Complete with clevis grab hooks, stainless steel tag and test certificate
- Further lengths available upon request



Chain (mm)	Leg (m)	1 Leg		2 Legs	
		WLL	Product Code	Product Code	WLL @ 60°
8	1	3.0t	7771081	7771089	5.2t
8	2	3.0t	7771082	7771090	5.2t
10	1	5.0t	7771084	7771092	8.6t
10	2	5.0t	7771085	7771093	8.6t
13	3	8.0t	7771087	7771097	13.8t
13	6	8.0t	7771088	7771098	13.8t

Assembled Slings

ICE-IAGH

- Manufactured in standard lengths
- Fully assembled with clevis self locking hooks
- Complete with clevis grab hooks, stainless steel tag and test certificate
- Further lengths available upon request



Chain (mm)	Leg (m)	1 Leg		2 Legs	
		WLL	Product Code	Product Code	WLL @ 60°
8	1	3.0t	7771103	7771109	5.2t
8	2	3.0t	7771104	7771110	5.2t
10	1	5.0t	7771105	7771111	8.6t
10	2	5.0t	7771106	7771112	8.6t
13	3	8.0t	7771107	7771113	13.8t
13	6	8.0t	7771108	7771114	13.8t

CROMOX STAINLESS STEEL CHAINS



Cromox is an innovation in the field of Stainless Steel chains, offering real advantages in terms of resistance, in particular with respect to aggressive medium. The new Cromox brand therefore stands for innovative quality products made by Ketten Wälder, in Germany.

This new development reflects a lot of new information obtained from years of experience and intensive research.



CROMOX CHAINS - the name stands for the new power in Stainless Steel. Chemical resistance meeting supreme requirements thanks to carefully used materials and great diversity of applications - also available as special-steel version on demand.

Resistance to mechanical stain for top-level applications. As for load lifting, Cromox is based on Grade 5 (SF 1:4) in conveying, the hard material insures long service life for the conveyer machines.

In addition to being of Grade 5, Cromox lifting chains have a safety factor of 1:4, guaranteeing a high degree of trueness of calibration and precise running over the chain wheels. Cromox anchor chains exceed by far the requirements of DIN and ISO standards as far as their loadbearing capacity and exact running over anchor windlass wheels is concerned.

Optimum surface finish thanks to variety of methods of treatment, some of which have been specially developed; natural black for further processing, mechanically brightened for conveying, electropolished for the food and leisure industries, pickled for use as anchor chains, blasted for the lifting of loads.

Materials which have been specially selected. One of them is a material no: 1.4404 (AISI 316 L), which offers excellent chemical and mechanical advantages, resulting in better corrosion resistance and more favorable properties.

Optimised accessories for individual requirements; chains, links, hooks, connectors, shorteners, shackles, swivels and rotary parts.

A multiplicity of possible combinations of individual components, for use in a variety of fields.

Applications:

- Chemistry
- Food Industry
- Water and wastewater engineering
- Environmental technology
- Renewable energies
- Power plant engineering
- Naval and military technology
- Nautical engineering
- Mechanical and plant engineering

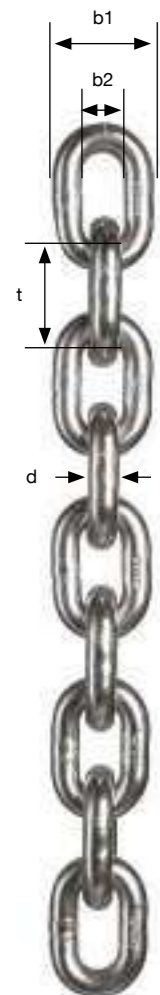
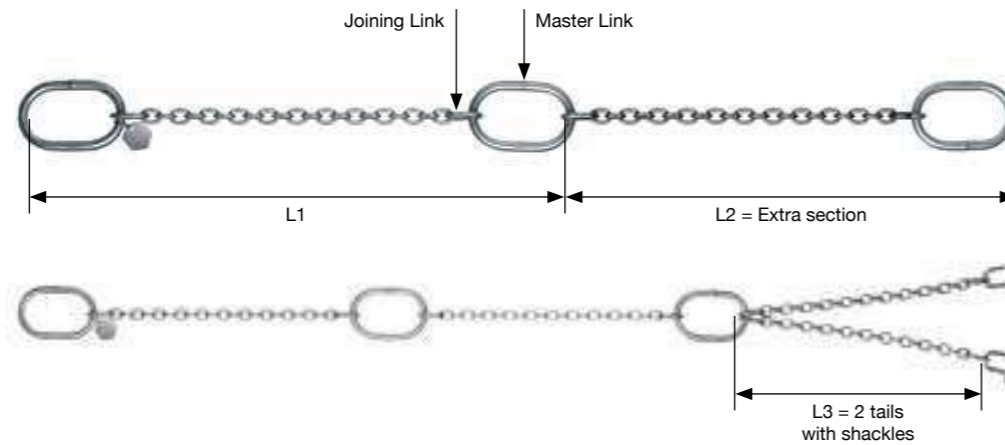
CROMOX STAINLESS STEEL CHAINS

CROMOX

Stainless steel pump lifting chains, AISI 316 L



Code	Type	W.L.L kg	Master Link mm	Chain mm	Joining Link mm
KW-179604	PK 4	300	8x54x30	4x16	5x22x9
KW-179605	PK 5	500	10x80x50	5x15	6x26x13
KW-179606	PK 6	750	13x110x60	6x18	8x35x19
KW-179607	PK 7	1000	13x110x60	7x21	8x35x19
KW-179608	PK 8	1250	16x110x60	8x24	10x44x25
KW-179610	PK 10	2000	18x135x75	10x30	13x54x25
KW-179613	PK 13	3200	22x160x90	13x39	16x70x34
KW-179616	PK 16	5000	26x180x100	16x48	22x115x50
KW-179618	PK 18	6300	32x200x110	18x54	26x140x65



Stainless steel chain, Grade 50 AISI 316 L

Code	d	Dimensions/mm		Weight ca.kg/m	W.L.L kgs	Breaking Force kN
		t	b1 min. b2 max.			
KW-105515EP	5.0	15.0	6.5 18.5	0.54	500	20
KW-105660EP	6.0	18.0	7.8 22.2	0.80	750	30
KW-105670EP	7.0	21.0	9.1 25.9	1.10	1000	40
KW-105680EP	8.0	24.0	10.4 29.6	1.40	1250	50
KW-105610EP	10.0	30.0	13.0 37.0	2.20	2000	80
KW-105613BK	13.0	39.0	16.9 48.1	3.80	3200	125
KW-105616BK	16.0	48.0	20.8 59.2	5.70	5000	200
KW-105618BK	18.0	54.0	24.3 64.8	7.30	7000	280

Stainless steel endless chain, Grade 50 AISI 316 L

Code	Chain d/mm	W.L.L/Vert kg	W.L.L 90° kg	W.L.L 120° kg
KW-132506EP	6	1500	825	600
KW-132507EP	7	2000	1100	800
KW-132508EP	8	2500	1375	1000
KW-132510EP	10	4000	2200	1600
KW-132513BK	13	6400	3520	2560
KW-132516BK	16	10000	5500	4000

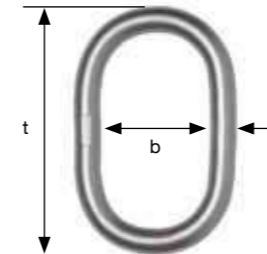


CROMOX STAINLESS STEEL FITTINGS

CROMOX

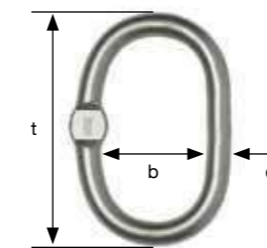
Stainless steel master links, 1 and 2 leg, type NAG without flattened section, Grade 50 AISI 318 LN

Code	Type	W.L.L			Dimensions mm			Weight ca kg
		0° 1-sling	90° 2-sling	120° 2-sling	d	t	b	
KW-177510BK	NAG 05	500	-	-	10	80	50	0.150
KW-177513BK	NAG 6706	1000	1000	750	13	110	60	0.340
KW-177516BK	NAG 0807	1250	1400	1000	16	110	60	0.530
KW-177518BK	NAG 1008	2000	1700	1250	18	135	75	0.800
KW-177522BK	NAG 1310	3200	2830	2000	22	160	90	1.500
KW-177526BK	NAG 1613	5000	4500	3200	26	180	100	2.300
KW-177532BK	NAG 1816	7160	7100	5000	32	200	110	3.900
KW-177536BK	NAG 2018	8000	9000	6300	36	260	140	6.350
KW-177806BK	NBG 6	500	-	-	6	26	13	0.018
KW-177808BK	NBG 8	1000	-	-	8	35	19	0.046
KW-177810BK	NBG 10	1250	710	500	10	44	25	0.092
KW-177813BK	NBG 13	2000	1000	750	13	54	25	0.195
KW-177816BK	NBG 16	3200	1770	1250	16	70	34	0.370
KW-177818BK	NBG 18	4100	2800	2000	18	85	40	0.530
KW-177822BK	NBG 22	6300	4500	3200	22	115	50	1.065
KW-177826BK	NBG 26	7600	7100	5000	26	140	65	1.825



Stainless steel master links, 1 and 2 leg slings, type NAF with flattened section, Grade 50 AISI 318 LN

Code	Type	W.L.L			Dimensions mm			Weight ca kg
		0° 1-sling	90° 2-sling	120° 2-sling	d	t	b	
KW-177613BK	NAF 6706	1000	1000	750	13	110	60	0.340
KW-177616BK	NAF 0807	1250	1400	1000	16	110	60	0.530
KW-177618BK	NAF 1008	2000	1700	1250	18	135	75	0.800
KW-177622BK	NAF 1310	3200	2800	2000	22	160	90	1.500
KW-177626BK	NAF 1613	5000	4500	3200	26	180	100	2.300
KW-177632BK	NAF 1816	7100	7100	5000	32	200	110	3.900
KW-177636BK *	NAF 2018	8000	9000	6300	36	260	140	6.350
KW-177913BK	NBF 13	2000	1000	750	13	54	25	0.195
KW-177916BK	NBF 16	3200	1700	1250	16	70	34	0.370
KW-177918BK	NBF 18	4100	2800	2000	18	85	40	0.530
KW-177922BK	NBF 20	6300	4500	3200	22	115	50	1.065
KW-177926BK	NBF 26	7600	7100	5000	26	140	65	1.825

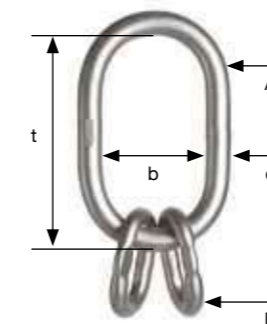


All master links have a flattened section to permit the use of connectors (e.g. clevis shackles type NGS)

* Available on request.

Stainless steel master links, 3 and 4 leg slings, type NATF with flattened section, Grade 50 AISI 318 LN

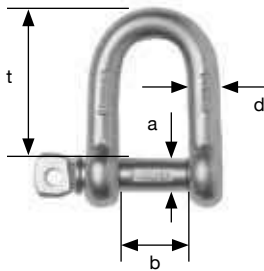
Code	Type	W.L.L		Dimensions mm			Weight ca.kg
		90° kg	120° kg	d	t	b	
KW-178618BK	NATF 0607	1600	1120	A18 B13	135 54	75 25	1.20
KW-178622BK	NATF 08	2650	1800	A22 B16	160 70	90 34	2.30
KW-178626BK	NATF 10	4250	3000	A26 B18	180 85	100 40	3.56
KW-178632BK	NATF 13	6700	4750	A32 A22	200 115	110 50	6.05
KW-178636BK	NATF 16	10000	7500	A36 B26	260 140	140 65	10.00



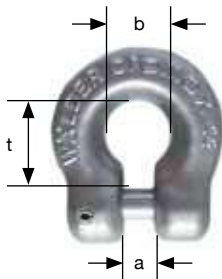
CROMOX STAINLESS STEEL FITTINGS

CROMOX

Stainless steel dee shackles, type NSA, Grade 50



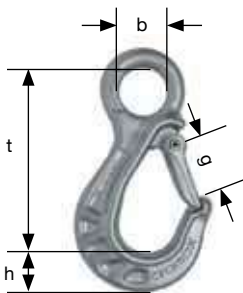
Code	Type	W.L.L kg	a	Dimensions mm			Weight ca.kg
				d	t	b	
KW-184605EP	NSA 05 AISI 316	500	9	8	24	17	0.058
KW-184606EP	NSA 06 AISI 316	750	11	10	35	20	0.116
KW-184608EP	NSA 08 AISI 316	1250	13	12	42	25	0.200
KW-184610EP	NSA 10 AISI 316	2000	18	16	64	32	0.450
KW-184613EP	NSA 13 AISI 316	3200	21	19	76	38	0.910
KW-184616EP	NSA 16 AISI 630	5000	19	16	64	32	0.550
KW-184618EP	NSA 18 AISI 630	6300	22	19	76	38	1.00
KW-184620EP	NSA 20 AISI 630	9000	26	22	88	44	1.900
KW-184622EP	NSA 22 AISI 630	11000	29	25	102	51	2.900
KW-184626EP	NSA 26 AISI 630	13000	32	29	114	57	3.100
KW-184627EP	NSA 27 AISI 630	15000	35	32	128	64	4.300
KW-184628EP	NSA 28 AISI 630	18000	38	35	140	70	5.300



Stainless steel clevis shackle, type NGS, Grade 50 AISI 316 L

Code	Type	W.L.L kg	t	Dimensions mm		Weight ca.kg
				b	a	
KW-199606GB	NGS 06	750	26	20	7	0.160
KW-199608GB	NGS 08	1250	30	23	9	0.230
KW-199610GB	NGS 10	2000	40	28	11	0.460
KW-199613GB	NGS 13	3200	48	38	14	0.675
KW-199616GB	NGS 16	5000	50	44	17	1.130

These clevis shackles may be inserted into master links to serve as connectors when assembling complete chain slings.



Stainless steel eye hook Type NOHF, Grade 50 with safety latch AISI 316 LN

A very rugged hook specially constructed with an integral forged safety latch. The latch itself is particularly resistant to side loading. In the event of the hook being seriously overloaded the latch will spring out of position. The point of the hook is designed to prevent incorrect use with the relevant size of chain, and the design of the hook itself is such that the safety latch does not reduce hook admittance.

Code	Type	W.L.L kg	t	Dimensions mm			Weight ca.kg
				g	b	h	
KW-175604GB	NOHF 04	300	75	20	17	17	0.185
KW-175606GB	NOHF 06	750	100	25	25	22	0.350
KW-175608GB	NOHF 08	1250	126	32	27	28	0.790
KW-175610GB	NOHF 10	2000	160	39	37	34	1.370
KW-175613GB	NOHF 13	3200	190	51	48	45	3.000
KW-175616GB	NOHF 16	5000	230	66	55	51	4.800
KW-175618GB	NOHF 18	6300	230	66	55	51	4.800