

▶ Max-alloy / Yoke Chain Slings

COMPONENT SELECTION GUIDE

CHAIN SIZE	COUPLING LINK	OBLONG MASTER LINK	SUB ASSEMBLIES	EYE SAFETY SLING HOOKS	CLEVIS SLING HOOK	EYE SELF LOCKING HOOKS	CLEVIS SELF LOCKING HOOKS	EYE GRAB HOOKS	CLEVIS GRAB HOOKS	EYE FOUNDRY HOOKS	CLEVIS FOUNDRY HOOKS	EYE GRIP SELF LOCKING HOOKS	CLEVIS GRIP SELF LOCKING HOOKS
6	6	MAo6	MA o6SA	6	6	6	6	6	6	6	6	6	6
7	7	MAo8o6	MA o8SA	7/8	7/8	7/8	7/8	7/8	7/8	7/8	X	X	X
8	8	MAo8o6	MA o8SA	7/8	7/8	7/8	7/8	7/8	7/8	7/8	X	X	X
10	10	MA1o08	MA 1oSA	10	10	10	10	10	10	10	10	10	10
13	13	MA131o	MA 13SA	13	13	13	13	13	13	13	13	13	13
16	16	MA1613	MA 16SA	16	16	16	16	16	16	16	16	16	16
20	20	MA2o16	MA 2oSA	20	20	20	20	20	20	20	X	20	20
22	22	MA222o	MA 22SA	22	22	22	X	22	22	22	X	X	X
26	26	MA2622	MA 26SA	26	X	26	X	26	X	26	X	X	X
32	32	MA3226	MA 32SA	32	X	X	X	32	X	32	X	X	X

USE OF CHAIN UNDER HEAT CONDITIONS

When Max - Alloy GRADE 800 is used in the temperature range as shown below, the working load should be reduced as indicated:

- 40° C to 200° C No reduction in working load limit while heated. No permanent reduction in working load limit.
- 200° C to 300° C 10% reduction in working load limit while heated. No permanent reduction in working load limit.
- 300° C to 400° C 25% reduction in working load limit while heated. No permanent reduction in working load limit.
- 400° C and above - do not use.

Max - alloy 200° temper grade chain 1000 chain should never under any circumstances be subjected to a temperature exceeding 200°C heating the chain to above this critical temperature will render it unsafe for any lifting operations. Should the chain be subjected to the above condition it must be withdrawn from service and returned to McKinnon chain for further examination.

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Working Load Limit of Grade 800 Chain

Chain Size	6	7	8	10	13	16	20	22	26	32
Inside link length	18	21	24	30	39	48	60	66	78	96
Outside width	22.2	25.9	29	37	48.1	59.2	74	81.4	96.2	118
Approx links per m	55.6	47	41.7	33.3	25.6	20.8	17	15.2	12.8	10.4
Approx kg per m	0.8	1.09	1.43	2.22	3.76	5.7	9	10.8	15	22.8
WLL tons grade 800	1.2	1.6	2	3.2	5.4	8.2	13	15.5	21.7	32.8

All Max - Alloy Grade 800 Chains are:

Fully traceable through to the original cast of the steel. Supplied complete with certificates of conformance. Able to work (with limitations) to 400° celsius. Supplied with manufacturers certificate of conformance. Manufactured from hardened and tempered alloy steel meeting the requirements of EN818 part 2 / SANS 189 Type approved for Norddeutsch Metall Berufsgenossenschaft (H46).



Working Load Limit of Grade 1000 Chain (200° Temper Chain)

Chain Size	6	7	8	10	13	16	20	22
Inside link length	18	21	24	30	39	48	60	66
Outside width	22.2	25.9	29	37	48.1	59.2	74	81.4
Approx links per m	55.6	47	41.7	33.3	25.6	20.8	17	15.2
Approx kg per m	0.8	1.09	1.43	2.22	3.76	5.7	9	10.8
WLL tons grade 200° T	1.4	2.0	2.5	4.0	6.7	10.0	16.0	19.0

CHAIN ABOVE 22MM ONLY AVAILABLE AS GRADE 800

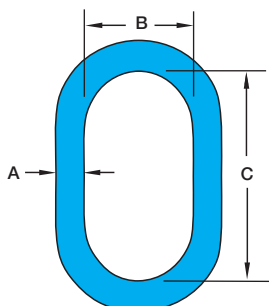
All Max - Alloy grade 200°T chains are:

A high grade hardened and tempered chain, which has been specifically heat treated to safely work at 25% higher working load limit than Max - Alloy grade 800 chain. Conforms mechanically to EN818 plus 25%. Conforms dimensionally to EN818 as well as SANS 189. Limited on working in hot applications, grade 1000 chains cannot under any circumstances work in an application where the chain temperature exceeds 200° celsius. All chains are fully traceable through to the original cast of the steel.

Max-alloy / Yoke Chain Slings

Master Links and Sub Assemblies

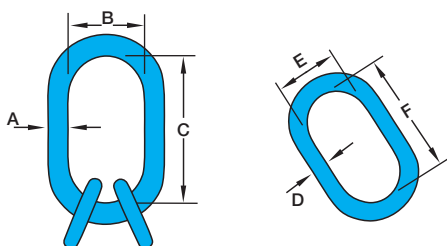
MAX - ALLOY OBLONG MASTER LINKS For single and two leg chain slings



Oblong Link MA-	A mm	B mm	C mm	Mass Each kg	Single Types SOS, SOG	Double Types Dos, Dog, of Single Adjustable Loop & Single Basket
06	10.0	40	80	0.15	6.0	6.0
0806	14.0	60	125	0.46	7.0	7.0
1008	16.0	75	150	0.72	10.0	-
1310	20.0	90	160	1.25	13.0	10.0
1613	25.0	102	190	2.41	16.0	13.0
2016	32.0	140	240	4.88	20.0	16.0
2220	40.0	155	280	8.87	22.0	20.0
2622	45.0	175	320	12.77	26.0	22.0
3226	50.0	195	350	17.35	32.0	25.5
3632	60.0	220	410	29.15	-	32.0

100% proof tested and 3% magnetic particle crack detected in accordance with EN 1677-1 & 4

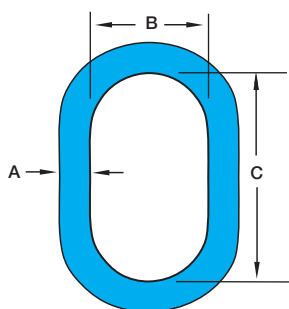
MAX - ALLOY OBLONG MASTER LINKSUB-ASSEMBLY For Three and Four leg chain slings



Oblong Link MA-	Size of Master Link in mm			Size of Coupling Link in mm			Mass Each kg	MA Chain Size in kg
	A	B	C	D	E	F		
06SA	14.0	60	125	10.0	16	30	0.6	6.0
08SA	20.0	90	160	13.0	35	60	1.7	7.0
10SA	25.0	102	190	16.0	40	80	3.3	10.0
13SA	32.0	140	240	22.0	50	90	6.8	13.0
16SA	40.0	155	280	28.0	60	100	12.5	16.0
20SA	45.0	175	320	32.0	75	125	18.5	20.0
22SA	50.0	195	350	40.0	80	140	27.5	22.0
26SA	60.0	220	410	45.0	90	165	44.0	25.5
32SA	70.0	250	420	50.0	100	195	65.4	32.0

100% proof tested and 3% magnetic particle crack detected in accordance with EN 1677-1 & 4

MAX - ALLOY ENLARGED OBLONG MASTER LINK

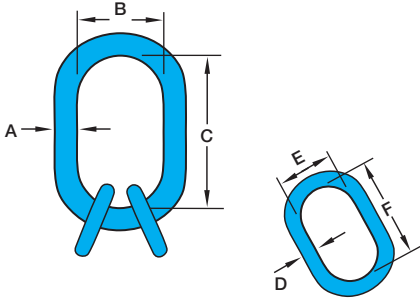


Oblong Link MA-	Size of Master Link in mm			WLL Tonne	MASS kg / unit
	A	B	C		
16ML	16	75	120	3.9	0.7
22MLS	22	90	162	8.6	1.5
23ML	22	140	270	5.6	2.3
28MLS	28	110	200	14.5	3.0
26ML	28	140	270	11.4	3.8
32ML	32	140	270	16.9	5.1
36ML	36	140	270	23.1	6.5
40ML	40	155	280	29.0	8.5
45ML	45	175	320	36.5	12.2
45MLL	45	265	490	24.7	17.8
50ML	50	195	350	45.2	16.6
60ML	60	220	410	63.0	29.2
70ML	70	250	490	88.6	44.3

100% proof tested and 3% magnetic particle crack detected

Master Links and Sub Assemblies

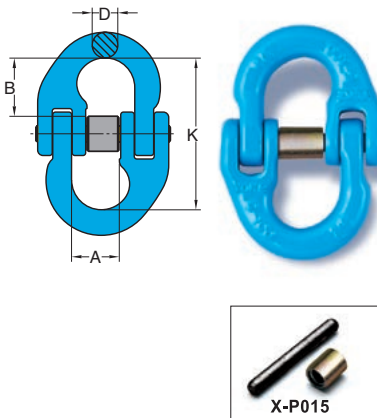
MAX - ALLOY ENLARGED MASTER LINK SUB- ASSEMBLY



Oblong Link MA-	Size of Master Link in mm		Size of Coupling Link in mm				WILL Tonne	MASS kg / unit
	A	B	C	D	E	F		
16QA	16	75	150	13	50	90	3.9	1.3
22QAS	22	90	162	20	70	140	8.6	3.6
23QA	22	140	270	16	75	150	5.6	3.8
28QAS	28	110	200	22	70	140	14.5	5.5
26QA	28	140	270	20	70	140	11.4	5.9
32QA	32	140	270	25.5	102	190	16.9	9.7
36QA	36	140	270	28	90	185	23.1	11.9
40QA	40	155	280	32	110	200	29.0	16.4
45QA	45	175	320	36	125	225	36.5	23.5
45QAL	45	265	490	30	90	185	24.7	24.1
50QA	50	195	350	40	130	260	45.2	32.3
60QA	60	220	410	50	195	350	59.9	63.9
70QA	70	250	450	60	220	410	84.7	102.6

100% proof tested and 3% magnetic particle crack detected

G-100 Connecting Link



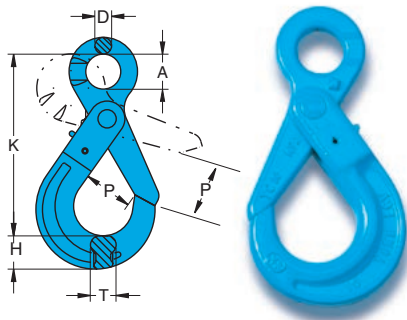
Item No	Working Load Limit	For Grade 100 Chain	Dimensions (mm)				N.W.
			(Tonnes)	(mm)	A	B	
X-015-06	1.4	6	15	18	7	45	0.08
X-015-07	2.5	7.8	18	25	9	59	0.2
X-015-10	4.0	10	25	28	11	69	0.3
X-015-13	6.7	13	30	38	16	92	0.7
X-015-16	10.0	16	36	41	19	101	1.2
X-015-20	16.0	20	42	50	23	122	2.1
X-015-22	19.0	22	49	63	24	152	3.5
X-015-26	26.5	26	55	66	30	162	4.8
X-015-32	40.0	32	69	85	36	203	9.0

Design factor 4:1 proof tested and certified.

A = Material diameter of largest link to be used.

Max-alloy / Yoke Chain Slings

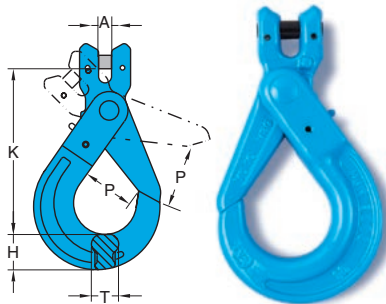
G-100 Eye Self Locking Hook



Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)						N.W. (kg)
			A	D	H	K	P	T	
X-025-06	1.4	6	21	10	19	110	28	15	0.5
X-025-07	2.5	7.8	25	11	24	136	34	20	0.8
X-025-10	4.0	10	32	13	30	167	44	26	1.5
X-025-13	6.7	13	40	16	39	207	51	30	3.0
X-025-16	10.0	16	50	21	49	252	60	36	5.8
X-025-20	16.0	20	60	23	65	290	70	53	10.0
X-025-22	19.0	22	70	24	63	319	80	49	12.5
X-025-26	26.5	26	80	25	69	343	99	56	15.0

Design factor 4:1 proof tested and certified.

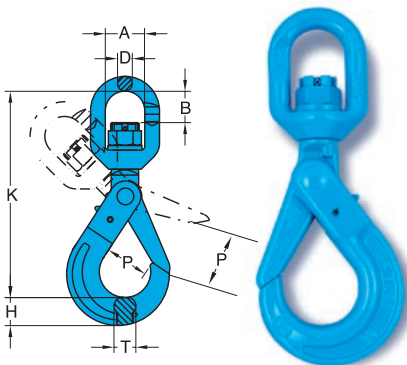
G-100 Clevis Self Locking Hook



Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)					N.W. (kg)
			A	H	K	P	T	
X-026-06	1.4	6	6	19	93	28	15	0.4
X-026-07	2.5	7.8	9	24	119	34	20	0.9
X-026-10	4.0	10	11	30	142	44	26	1.4
X-026-13	6.7	13	14	39	178	51	30	3.0
X-026-16	10.0	16	18	49	213	60	36	5.0
X-026-20	16.0	20	21	65	244	70	53	11.0
X-026-22	19.0	22	24	63	273	80	49	13.5

Design factor 4:1 proof tested and certified.

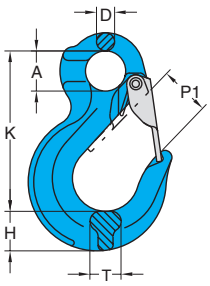
G-100 Swivel Self Locking Hook - with Brass Bushing



Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)							N.W. (kg)
			A	B	D	H	K	P	T	
X-027-06	1.4	6	32	22	12	19	149	28	15	0.7
X-027-07	2.5	7.8	36	29	13	24	186	34	20	1.2
X-027-10	4.0	10	41	34	16	30	218	44	26	2.0
X-027-13	6.7	13	46	43	21	39	276	51	30	4.1
X-027-16	10.0	16	61	50	23	49	329	60	36	7.2
X-027-20	16.0	20	74	82	25	65	387	70	53	13.0
X-027-22	19.0	22	97	95	33	63	457	80	49	20.0
X-027-26	26.5	26	123	115	42	69	535	99	56	33.0

Design factor 4:1 proof tested and certified.

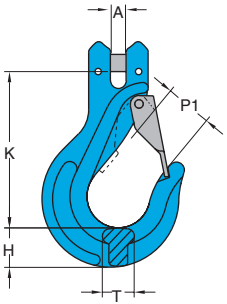
G-100 Eye Sling Hook - with Latch



Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)						N.W. (kg)
			A	D	H	K	P1	T	
X-044/S-06	1.4	6	20	10	19	80	23	17	0.3
X-044/S-07	2.5	7.8	25	12	23	98	28	20	0.5
X-044/S-10	4.0	10	32	15	31	121	36	23	1.0
X-044/S-13	6.7	13	40	18	38	152	40	27	1.8
X-044/S-16	10.0	16	50	22	45	185	44	32	3.4
X-044/S-20	16.0	20	61	27	64	230	54	48	7.3
X-044/S-22	19.0	22	51	31	63	245	76	52	9.3
X-044/S-26	26.5	26	65	35	80	279	77	60	13.5
X-044/S-32	40.0	32	88	40	86	352	114	65	22.0

Design factor 4:1 proof tested and certified.

G-100 Clevis Sling Hook - with Latch



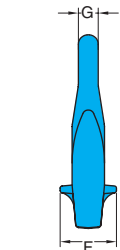
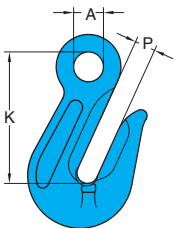
Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)					N.W. (kg)
			A	H	K	P1	T	
X-043/S-06	1.4	6	6	23	97	23	15	0.3
X-043/S-07	2.5	7.8	9	22	98	27	18	0.6
X-043/S-10	4.0	10	11	30	122	34	24	1.1
X-043/S-13	6.7	13	14	37	147	44	30	2.3
X-043/S-16	10.0	16	17	42	166	48	39	3.8
X-043/S-20	16.0	20	24	64	207	57	48	8.7
X-043/S-22	19.0	22	25	61	217	73	52	9.5

Design factor 4:1 proof tested and certified.

Not for use with Omega Link.

No reduction of working load limit, thanks to supporting wings which prevent link deformation

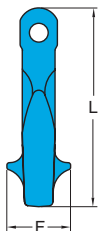
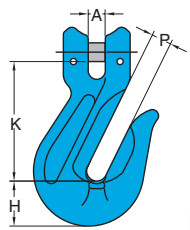
G-100 Eye Grab Hook



Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)					N.W. (kg)
			A	F	G	K	P	
X-041-06	1.4	6	13	26	8	50	8	0.2
X-041-07	2.5	7.8	16	30	9	62	10	0.3
X-041-10	4.0	10	20	40	13	82	13	0.6
X-041-13	6.7	13	26	52	16	107	17	1.4
X-041-16	10.0	16	30	57	20	132	21	2.4
X-041-20	16.0	20	38	73	24	147	23	4.0
X-041-22	19.0	22	38	70	26	164	26	5.0
X-041-26	26.5	26	50	100	32	207	33	10.1

Design factor 4:1 proof tested and certified.

Max-alloy / Yoke Chain Slings

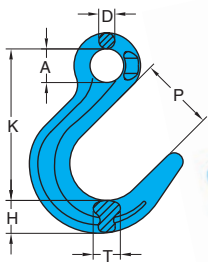


G-100 Clevis Grab Hook

Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)						N.W. (kg)
			A	F	H	K	L	P	
X-042-06	1.4	6	7	25	18	47	79	79	0.2
X-042-07	2.5	7.8	10	30	22	54	93	10	0.4
X-042-10	4.0	10	11	41	29	77	128	13	0.8
X-042-13	6.7	13	15	52	38	99	165	17	1.6
X-042-16	10.0	16	18	57	45	114	195	21	2.7
X-042-20	16.0	20	22	73	52	130	222	23	4.8
X-042-22	19.0	22	24	70	56	139	247	26	6.4

Design factor 4:1 proof tested and certified.

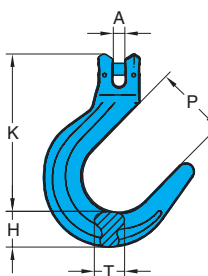
G-100 Eye Foundry Hook



Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)						N.W. (kg)
			A	D	H	K	P	T	
X-047-07	2.5	7.8	24	12	27	123	62	19	0.8
X-047-10	4.0	10	32	15	32	149	74	23	1.6
X-047-13	6.7	13	40	19	39	180	88	32	2.6
X-047-16	10.0	16	50	25	47	213	98	41	4.5
X-047-20	16.0	20	60	26	57	248	113	46	9.3

Design factor 4:1 proof tested and certified.

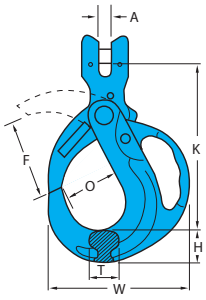
G-100 Clevis Foundry Hook



Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)					N.W. (kg)
			A	H	K	P	T	
m8+10A070cfh	2.5	7.8	9	27	133	62	19	0.95
m8+10A100cfh	4.0	10	11	32	163	74	23	1.8
m8+10A130cfh	6.7	13	14	39	200	88	32	3.6
m8+10A160cfh	10.0	16	18	47	239	98	41	6.4
m8+10A200cfh	16.0	20	21	62	305	113	46	11.2

Design factor 4:1 proof tested and certified.

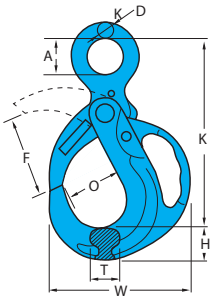
Clevis Grip Safe Locking Hook



Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)								N.W. (kg)
			A	D	H	K	O	P	T	W	
X-950-10	4.0	10	32	13	31	175	49	71	27	139	1.9
X-950-13	6.7	13	40	16	39	227	57	80	34	174	3.0
X-950-16	10.0	16	50	21	47	277	78	114	39	212	6.3

Design factor 4:1 proof tested and certified.

Eye Grip Safe Locking Hook



Item No	Working Load Limit (Tonnes)	For Grade 100 Chain (mm)	Dimensions (mm)							N.W. (kg)
			A	H	K	O	P	T	W	
X-951-10	4.0	10	11	31	153	49	71	27	139	1.9
X-951-13	6.7	13	14	39	206	57	80	34	174	4.1
X-951-16	10.0	16	18	47	243	78	114	39	212	6.4

Design factor 4:1 proof tested and certified.