

# Quik-Alloy Chain Slings

The Campbell Quik-Alloy system provides proof tested and certified components for easily and quickly assembling all of the popular types of chain slings plus many special slings. Hooks and coupling links have rotating load pins that resist bending and offer shear values equivalent to the chain. The

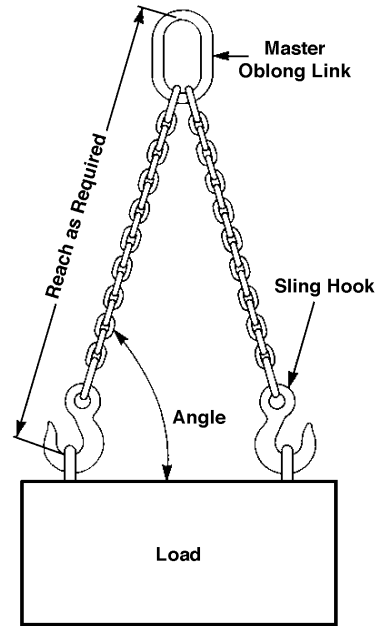
open design of the hooks allows for easy inspection. All Quik-Alloy components are sized and identified according to the chain with which they are to be used. They meet or exceed all OSHA, ANSI, and ASME specifications.

## How to Design Quik-Alloy Chain Slings

1. Determine the maximum LOAD to be lifted.
2. Choose the TYPE of sling assembly necessitated by the size and dimension of the load.
3. Estimate the approximate ANGLE to the load in which the legs of the assembly will be positioned for operation.
4. Determine the SIZE OF CHAIN ATTACHMENTS by referring to the Assembly Tables that follow. On multi-leg slings, if the distance between the points of attachment equals the reach of the sling, the angle is approximately 60°
5. Determine the overall REACH (see illustration). Use the Assembly Tables that follow to determine length of Campbell chain to order.
6. Attach field identification tag to all slings. One box of 50-No. 7503506.

For any problem involving reach, angle of lift or working load limit, consult your local Campbell distributor. Remember to use only Campbell "Quik-Alloy" components in assembling chain slings.

SUBSTITUTION OF ANY COMPONENTS WITH PARTS NOT INDICATED ON THE CHART COULD SERIOUSLY DIMINISH THE WORKING LOAD OF THE ASSEMBLY. Do not use any coupling links to repair damaged or broken chain. It is imperative that such chain be replaced.



## How to Assemble Quik-Alloy Coupling Links

Slings



1. Loop one half of body over the master link at the flat embossed area, the other half through the chain. Fit together.



2. Place stud assembly and alloy locking pin in link as shown.



3. Drive the locking pin in until the snap ring engages the recessed portion of the pin. (Link is disassembled by simply driving locking pin out.)

**⚠ ADVERTENCIA**

Para prevenir la posibilidad de una lesión personal seria:

- **NO EXCEDA** los límites de carga de las cadenas o componentes.
- **NO LA UTILICE** si la cadena o los componentes están visualmente distorsionados o gastados.

**⚠ WARNING**

To prevent the possibility of serious bodily injury:

- **DO NOT EXCEED** the working load limits for chain or components.
- **DO NOT USE** if the chain or components are visibly distorted or worn.

# How to Use Quik-Alloy Chain Sling Assembly Tables

If the overall reach of your sling is determined to be more than five feet, subtract five feet, then add this difference to the "chain needed" length given on the Assembly Table. If overall reach is less than five feet, subtract reach from five feet. Then subtract the difference from the "chain needed" length in the Assembly Table. All measurements are based on using Quik-Alloy hooks (not Cam-Alloy hooks).

WHEN USING QUIK-ALLOY HOOKS (NOT CAM-ALLOY HOOKS), BE SURE THAT EACH LEG OF A DOUBLE SLING HAS THE SAME, EVEN (DIVISIBLE BY TWO) NUMBER OF LINKS. For triple or quad slings, each leg should have odd numbers of links to compensate for coupling links on master link sub-assembly. When cutting, if the required reach falls within a link, LEAVE THAT LINK. Reach measurements are given as a minimum. Never cut less than specified reach.

## Quik-Alloy Chain Sling Assembly Tables

Chain Size	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
	9/32	7	3/8	10	1/2	13	5/8	16	3/4	19



Single Chain Slings: Types S and C

Working Load Limit	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	
	4,300	1,952	8,800	3,995	15,000	6,810	22,600	10,260	35,300	16,026	
Master Link Number	VO-1		VO-2		VO-3		VO-3		VO-4		
Cat. No.	Master Link	5683215		5683315		5683415		5683515		5683615	
	QA Sling Hook	5744415		5744615		5744815		5745015		5745215	
	QA Grab Hook	5724415		5724615		5724815		5725015		5725215	
	QA Coupling Link	5779125		5779135		5779145		5779155		5779165	
Chain needed for 5' reach	Sling Hook	4'1"		3'10"		3'7"		3'5"		3'3"	
	Grab Hook	4'3"		4'0"		3'9"		3'8"		3'6"	



Double Chain Slings: Type D

Working Load Limit	60°	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
	45°	7,500	3,405	15,200	6,901	26,000	77,804	39,100	17,751	61,100	27,739
30°	6,100	2,769	12,400	5,630	21,200	9,625	32,000	14,528	49,900	22,655	
		4,300	1,952	8,800	3,995	15,000	6,810	22,600	10,260	35,300	16,026
Master Link Number		VO-1		VO-2		VO-3		VO-4		VO-5	
Cat. No.	Master Link	5683215		5683315		5683415		5683515		5683615	
	QA Sling Hook	5744415		5744615		5744815		5745015		5745215	
	QA Grab Hook	5724415		5724615		5724815		5725015		5725215	
	QA Coupling Link	5779125		5779135		5779145		5779155		5779165	
Chain needed for 5' reach	Sling Hook	4'1"		3'10"		3'7"		3'5"		3'1"	
	Grab Hook	4'3"		4'0"		3'9"		3'8"		3'3"	



Triple Chain Slings: Type T and Quad Chain Slings: Type Q

Working Load Limit	60°	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
	45°	11,200	5,085	22,800	10,351	39,000	17,706	58,700	26,650	91,700	41,632
30°	9,100	4,131	18,600	8,444	31,800	14,437	47,900	21,747	74,900	34,005	
		6,450	2,928	13,200	5,993	22,500	10,215	33,900	15,391	53,000	24,062
Master Link Number		VO-2		VO-3		VO-4		VO-5		VO-6	
Cat. No.	Sub-Assembly	5682215		5682315		5682415		5682515		5682615	
	QA Sling Hook	5744415		5744615		5744815		5745015		5745215	
	QA Grab Hook	5724415		5724615		5724815		5725015		5725215	
	QA Coupling Link	5779125		5779135		5779145		5779155		5779165	
Chain needed for 5' reach	Sling Hook	3'10"		3'6"		3'2"		2'10"		2'5"	
	Grab Hook	3'11"		3'8"		3'4"		2'10"		2'8"	

Slings

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## Quik-Alloy Latches (Old Style)



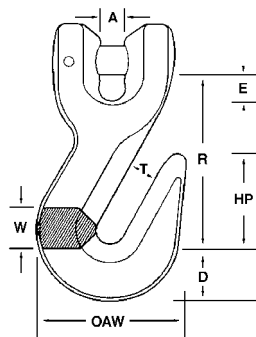
Chain Size		Sling Hook	Sling Hook with Latch	Standard Latch No.
in.	mm			
9/32	7	5744415	5744495	3990401
3/8	10	5744615	5744695	3990601
1/2	13	5744815	5744895	3990701
5/8	16	5745015	5745095	3991001
3/4	20	5745215	5745295	3991001

## Quik-Alloy Latches (New Style)



Chain Size		Sling Hook	Sling Hook with Latch	Standard Latch No.
in.	mm			
9/32	7	5646415	5646495	7506495
3/8	10	5646615	5646695	7506695
1/2	13	5646815	5646895	7506895
5/8	16	5647015	5647095	7507095
3/4	20	5647215	5647295	7507295

## Quik-Alloy Grab Hooks



Chain Size		Cat. No.	UPC No. 020418	Approx. Weight Each		Working Load Limit	
in.	mm			lb	kg	lb	kg
9/32	7	5724415	182600	.5	.23	4,300	1,950
3/8	10	5724615	182617	1.6	.73	8,800	4,000
1/2	13	5724815	182624	2.6	1.18	15,000	6,800
5/8	16	5725015	182631	5.2	2.36	22,600	10,300
3/4	20	5725215	182648	10.5	4.77	35,300	16,000

Slings

Chain Size		Dimensions																	
		R		T		A		E		Load Pin Dia.		D		W		HP		OAW	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
9/32	7	2 11/32	60	3/8	10	5/16	8	1 1/32	9	3/8	10	1 3/16	21	5/8	16	1 1/4	32	2	51
3/8	10	2 29/32	74	1/2	13	7/16	11	1/2	13	1/2	13	1 1/4	32	3/4	19	1 5/8	41	2 13/16	71
1/2	13	3 23/32	94	2 1/32	17	9/16	14	5/8	16	5/8	16	1 1/2	38	1 5/16	24	2	51	3 1/2	89
5/8	16	4 7/16	113	2 5/32	20	2 3/32	18	3/4	19	3/4	19	1 3/4	44	1 7/32	31	2 5/8	67	4 1/8	105
3/4	20	5 1/8	130	3 1/32	25	1 9/16	21	7/8	22	7/8	22	2 1/8	54	1 3/8	35	3 1/4	83	4 7/8	124

Dimensions and weights are approximate.

Note: Use of chain in a grab hook may reduce the breaking load of the chain by up to 20%

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