Alloy Chain Slings

ALLOY CHAIN SLINGS – Superior strength slings, ease of handling and durability. Used in environments having severe lifting conditions such as foundries, steel mills, and heavy machining operations. Chain slings provide the longest sling life in these conditions commonly seen in these environments.

PRODUCT FEATURES

- Registered metal tag attached for identification and traceability.
- Long service life when used properly.
- Can be used in high temperature environments.

Special Note: Cald-Alloy™ chain slings are constructed using the best quality alloy steel, the only type recmmended by OSHA for overhead lifting. A **Registered Identification** Tag is attached to each chain sling. This tag serves as a permanent identification for the life of the sling. Each tag is stamped with the grade, size, reach, type, work load (at a specific angle of lift), and a register number corresponding to the information supplied with the sling invoice. This provides the needed information for user compliance with OSHA requirements, and that all persons involved in the purchase and use of Cald-Alloy™ Chain Slings are aware of the specifications. All chain and component parts are proof tested to twice the catalog Working Load Limit.

Care And Use Of Alloy Chain Slings

CARE

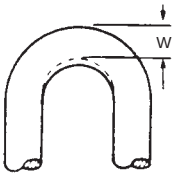
- Store on a rack in a clean, dry place.
- Oil prior to prolong use.
- Do not anneal (temper) alloy chain, connecting links or hook(s). Hot galvanizing requires chain manufacturers advice.

USE

- Check weight of load.
- Check sling rated load for type of lift, angle of loading (see load angle chart).
- Avoid twists, knots or kinks.
- Center load on base (bowl) of hook unless hook is designed for point loading.
- Balance load.
- Avoid jerking load.
- Be alert for snagging of load.
- Maintain load control.
- Pad sharp corners.
- Keep load of sling.
- Avoid dragging sling over rough surfaces and from under the load.
- Stand clear of the load at all times.
- No person allowed beneath the load.
- Persons are not to ride on sling or load.
- For use in temperature over 800°F, contact the manufacturer.
- When shortening chain, use only the manufacturer's recommended alloy components.

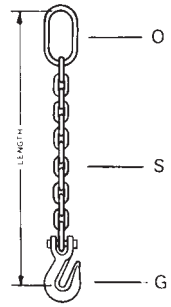
CHAIN WEAR ALLOWANCE

Determine wear by measuring cross section at link ends. If worn to less than the minimum thickness allowable, chain should be removed from service.



WEAR ALLOWANCE TABLE

Chain Size (in.)	Minimum Allowable Thickness – W (in.)
9/32 (.281)	.239
3/8 (.375)	.335
1/2 (.500)	.435
5/8 (.625)	.536
3/4 (.750)	.669
7/8 (.875)	.744
1 (1.00)	.870



TYPE SOG

Specify sling type, chain size and sling length, as follows:

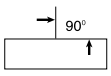
a) *Size:* Refer to the Working Load Limit table, above. Specify chain size that matches load limit for sling type desired.

b) *Type:* State the sling required. Refer to the illustrations on pages 20 and 21. An example is the type SOG illustrated at left.

c) *Length:* State the length, including attachments, measured from bearing point to bearing point, as shown at left. Example: 1/2-SOG-10'

NOTE: If the type of chain sling desired is not illustrated in this catalog, give details of sling and attachments required.

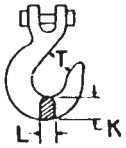
Rated Capacities For Cald-Alloy™ Grade 80 Alloy Steel Chain Slings

Chain Size, Inches	Single Leg	Double Leg			Triple Leg and Quad Leg		
							
9/32	3,500	6,100	4,900	3,500	9,100	7,400	5,200
3/8	7,100	12,300	10,000	7,100	18,400	15,100	10,600
1/2	12,000	20,800	17,000	12,000	31,200	25,500	18,000
5/8	18,100	31,300	25,600	18,100	47,000	38,400	27,100
3/4	28,300	49,000	40,000	28,300	73,500	60,000	42,400
7/8	34,200	59,200	48,400	34,200	88,900	72,500	51,300
1	47,700	82,600	67,400	47,700	123,900	101,200	71,500

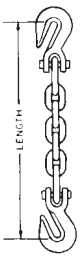
oblong link

foundry hook

sling hook



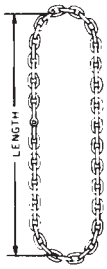
grab hook



TYPE SGGS

Chain Size, Inches	Working Load Limit Lbs.	Length Ft., Inches	Approx. Wt. Lbs. Type SGGS
9/32	3,500	0'-8"	2
3/8	7,100	0'-11"	4
1/2	12,000	1'-2"	8
5/8	18,100	1'-5"	15
3/4	28,300	1'-7"	25
7/8	34,200	2'-9"	41
1	47,700	3'-1"	70

Standard arrangement consists of 5 links of alloy body chain with a grab hook at each end.

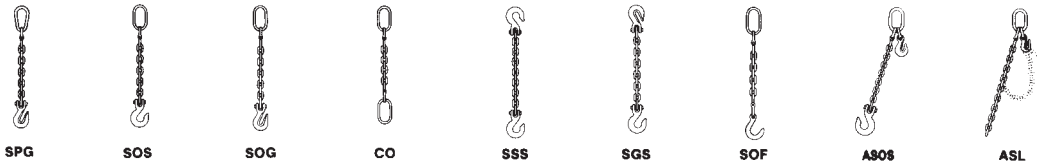


ENDLESS TYPE E

Chain Size, Inches	Working Load Limit Lbs.
9/32	3,500
3/8	7,100
1/2	12,000
5/8	18,100
3/4	28,300
7/8	34,200
1	47,700

Alloy Chain Slings

Single Chain Slings



Chain Size (in.)	Rated Capacity Vertical (lbs.)	Approx. Weight 5 Foot Reach Type SOS (lbs.)	OBLONG LINK			FOUNDRY HOOK			SLING HOOK WITH LATCH		
						Throat	Width	Depth	Throat	Width	Depth
			A	B	C	T	L	K	T	L	K
9/32	3,500	5	1/2	2-1/2	5	2-1/2	1	1-15/64	1-1/16	47/64	1-13/64
3/8	7,100	9	3/4	2-3/4	5-1/2	3	1-17/64	1-1/2	1-5/16	61/64	1-29/64
1/2	12,000	18	1	3-1/2	7	3-1/2	1-1/2	1-3/4	1-9/16	1-11/64	1-15/16
5/8	18,100	27	1	3-1/2	7	4	1-13/16	2-1/32	1-3/4	1-7/16	2-3/8
3/4	28,300	44	1-1/4	4-3/8	8-3/4	4-1/2	2-13/64	2-9/16	2-3/16	1-11/16	2-53/64
7/8	34,200	58	1-1/2	5-1/4	10-1/2	5	2-1/4	2-45/64	2-3/8	1-61/64	3-15/64
1	47,700	79	1-3/4	6	12	5-1/2	2-19/32	3	3-3/32	2-9/64	3-9/16

Double Chain Slings

Chain Size (in.)	Rated Capacity @ 60° (lbs.)	Approx. Weight 5 Foot Reach Type DOS (lbs.)	OBLONG LINK AT TOP			OBLONG LINK AT BOTTOM			FOUNDRY HOOK			SLING HOOK WITH LATCH		
									Throat	Width	Depth	Throat	Width	Depth
			A	B	C	A	B	C	T	L	K	T	L	K
9/32	6,100	10	1/2	2-1/2	5	1/2	2-1/2	5	2-1/2	1	1-15/16	1-1/16	47/64	1-13/64
3/8	12,300	17	3/4	2-3/4	5-1/2	3/4	2-3/4	5-1/2	3	1-17/64	1-1/2	1-5/16	61/64	1-29/64
1/2	20,800	32	1	3-1/2	7	1	3-1/2	7	3-1/2	1-1/2	1-3/4	1-9/16	1-11/64	1-15/16
5/8	31,300	51	1-1/4	4-3/4	8-3/4	1	3-1/2	7	4	1-13/16	2-1/32	1-3/4	1-7/16	2-3/8
3/4	49,000	74	1-1/2	5-1/4	10-1/2	1-1/4	4-3/8	8-3/4	4-1/2	2-13/64	2-9/16	2-3/16	1-11/16	2-53/64
7/8	59,200	99	1-3/4	6	12	1-1/2	5-1/4	10-1/2	5	2-1/4	2-45/64	2-3/8	1-61/64	3-15/64
1	82,600	134	2	7	14	1-3/4	6	12	5-1/2	2-19/32	3	3-3/32	2-9/64	3-9/16

Triple and Quadruple Chain Slings

Chain Size (in.)	Rated Capacity @ 60° (lbs.)	Approx. Weight 5 Foot Reach Type TOS (lbs.)	Approx. Weight 5 Foot Reach QSOS (lbs.)	OBLONG LINK			FOUNDRY HOOK			SLING HOOK WITH LATCH		
							Throat	Width	Depth	Throat	Width	Depth
				A	B	C	T	L	K	T	L	K
9/32	9,100	16	19	3/4	2-3/4	5-1/2	2-1/2	1	1-15/16	1-1/16	47/64	1-13/64
3/8	18,400	28	35	1	3-1/2	7	3	1-17/64	1-1/2	1-5/16	61/64	1-29/64
1/2	31,200	53	63	1-1/4	4-3/8	8-3/4	3-1/2	1-1/2	1-3/4	1-9/16	1-11/64	1-15/16
5/8	47,000	81	100	1-1/2	5-1/4	10-1/2	4	1-13/16	2-1/32	1-3/4	1-7/16	2-3/8
3/4	73,500	116	140	1-3/4	6	12	4-1/2	2-13/64	2-9/16	2-3/16	1-11/16	2-53/64
7/8	88,900	154	187	2	7	14	5	2-1/4	2-45/64	2-3/8	1-61/64	3-15/64
1	123,900	209	250	2-1/4	8	16	5-1/2	2-15/32	3	3-3/32	2-9/64	3-9/16

Model CSS – Chain Sling Saddle Ring

DOUBLE LEG

Shown with optional chain sling

PRODUCT FEATURES:

- Allows unbalanced loads to be lifted evenly.
- Allows full adjustment of sling length.
- Can use many different chain lengths with only one chain sling saddle.
- Can be used with various chain sling end fittings.
- Economical and easy to use.

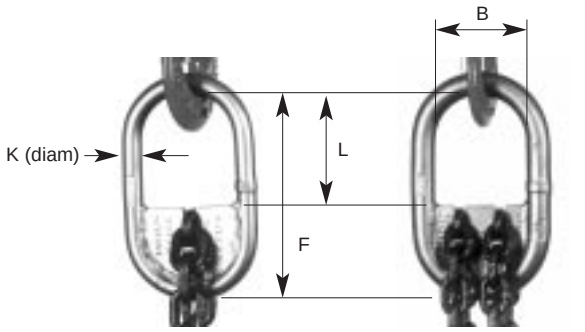
QUADRUPLE LEG

Shown with optional chain sling

SPECIFICATIONS

MODEL NO.	STYLE	DIMENSIONS B	F	K	L	WGT lbs
CSS-9/32	DL	2.46”	6”	37/64”	3”	1
	QL	2.96”	6”	13/16”	3-3/4”	3
CSS-3/8	DL	2.96”	7-1/2”	13/16”	3-3/8”	3
	QL	3.83”	7-1/2”	1-1/8”	5-3/8”	7
CSS-1/2	DL	3.83”	10”	1-1/8”	4-1/2”	8
	QL	3.94”	10”	1-1/4”	4-1/2”	11

How to order: Double Leg - CSS-9/32 DL
Quadruple Leg - CSS-9/32 QL



DOUBLE LEG (DL) QUADRUPLE LEG (QL)

Patent No. 4,241,575

CAUTION: Do Not Exceed Rated Capacities