



E. E. Karachiwala & Co.

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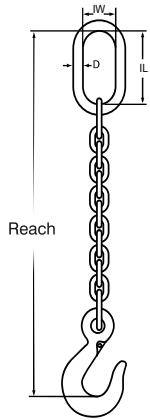


usha martin

Authorised Distribution Partner

Estd. 1910

SINGLE LEG CHAIN SLINGS



EEK-CS1(RH)

Ring &
Chain Hook



EEK-CS1(RG)

Ring &
Grab Hook



EEK-CS1(HG)

Sling &
Grab Hook



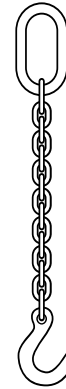
EEK-CS1(RR)

Ring &
Ring



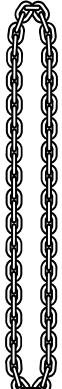
EEK-CS1(HH)

Sling Hook &
Hook



EEK-CS1(RF)

Ring &
Foundry Hook

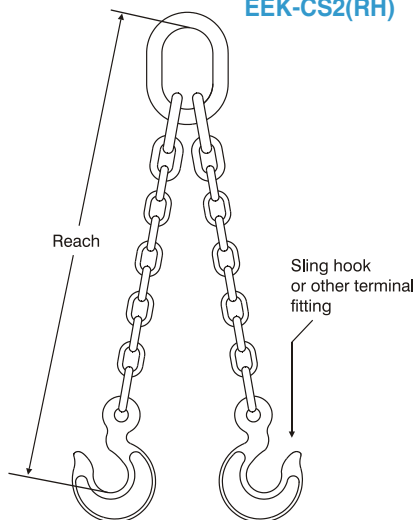


EEK-CSE

Endless

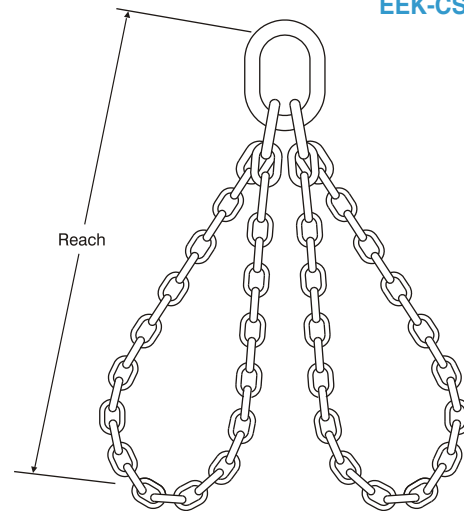
DOUBLE LEG CHAIN SLING

EEK-CS2(RH)



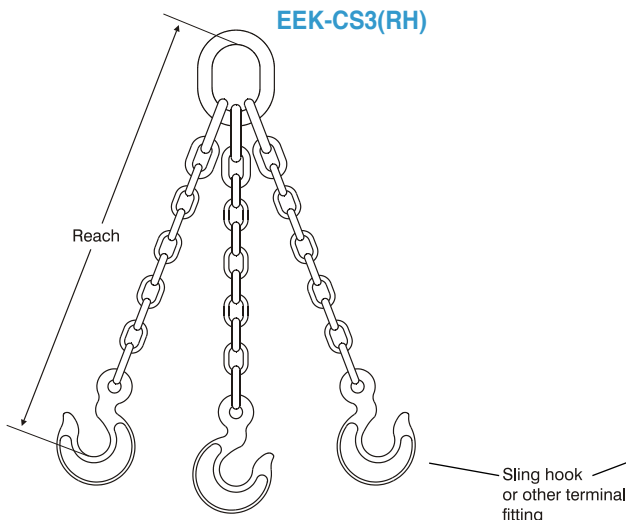
DOUBLE LOOP ENDLESS CHAIN

EEK-CS2E(R)



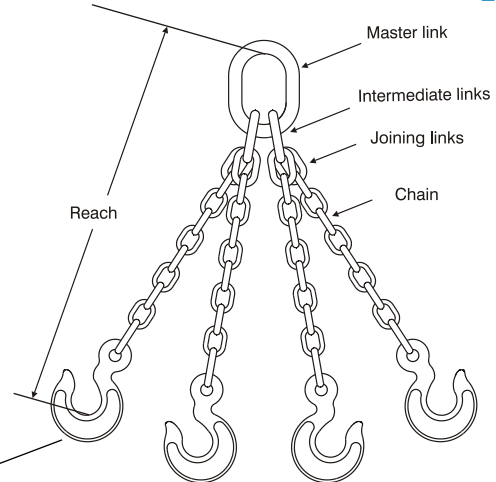
THREE LEG CHAIN SLING

EEK-CS3(RH)



FOUR LEG CHAIN SLING

EEK-CS4(RH)





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LIFTING CAPACITY OF CHAIN SLINGS / WORKING LOAD LIMIT (MT)

Chain Size mm			Single leg	Endless	Multi-Leg slings at 90° angle			
					2 Legs	3 Legs	4 Legs	2 Loop
GR-30	GR-63	GR-80						
14	9	8	2.0	2.0	2.8	4.2	4.2	2.8
16	10	9	2.5	2.5	3.5	5.2	5.2	3.5
16	12	10	3.2	3.2	4.5	6.7	6.7	4.5
20	14	12	5.0	5.0	7.0	10.5	10.5	7.0
22	16	14	6.3	6.3	8.8	13.2	13.2	8.8
25	18	16	8.0	8.0	11.2	16.8	16.8	11.2
28	20	18	10.0	10.0	14.0	21.0	21.0	14.0
32	22	20	12.5	12.5	17.5	26.2	26.2	17.5
-	25	22	16.0	16.0	22.4	33.6	33.6	22.4
-	28	25	20.0	20.0	28.0	42.0	42.0	28.0
-	32	28	25.0	25.0	35.0	52.5	52.5	35.0
-	36	32	32.0	32.0	44.8	67.2	67.2	44.8

RATING

Single Branch Sling

Single branch slings shall have a working load limit equal to that of the Chain used in their construction.

Multi-Branch Slings

Multi- branch slings shall be rated at a uniform working load limit for an angle between branches of 90°- 120° (45°- 60° to the vertical) or additionally at a uniform working load limit for any angle between branches of 90° - 120° (45°- 60° to the vertical)

Uniform Load Method

a) Double Branch Slings:

For all angles between branches from 0° - 90° (0° - 45° to the vertical)

WLL = 1.4 x WLL of a single branch made from similar chain.

When additionally marked for angles between branches of 90° - 120° (45° - 60° to the vertical)

WLL = 1 x WLL of single branch made from similar chain.

b) Three and Four Branch Slings:

For all angles between branches from 0° - 90° (0° - 45° to the vertical)

WLL = 2.1 x WLL of a single branch made from similar chain.

When additionally marked for angles between branches of 90° - 120° (45° - 60° to the vertical)

WLL = 1.5 x WLL of single branch made from similar chain.

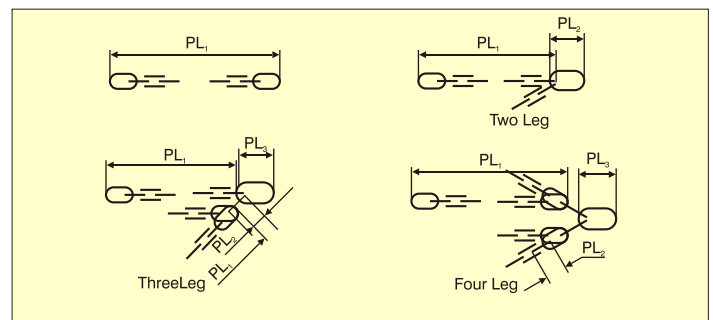
NOTE:

In the case of a three branch sling the angle between branches shall be taken as twice the angle to the vertical, that is 2x.

In case of a four branch sling the angle between branches shall be that between diagonally opposite branches.

PROOF LOAD TESTING

After final heat treatment slings with accessories shall be tested as an assembly, multi- leg chain slings shall be tested in sections. Individual sections of the chain slings shall be subjected to 2.0 times the load to which the section will be subjected when the assembly is subjected to its working load limit in accordance with the following plan:



Factors for Working load limit	PL ₁	PL ₂	PL ₃
	1	1.4	2.1
Proof load (2 x WLL)	2	2.8	4.2

NOTE:

For working load limits over 25t, it is permissible to apply proof loads to the links PL2 and PL3 reduced in accordance with ILO recommendations.



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HOW TO ORDER CHAIN SLINGS

Single Legged: EEK-CS1 + End Terminations + Effective Length + Capacity

Two Legged: EEK-CS2 + Top Fitting + Bottom Fitting + Effective Length + Capacity

Three Legged: EEK-CS3 + Top Fitting + Bottom Fitting + Effective Length + Capacity

Four Legged: EEK-CS4 + Top Fitting + Bottom Fitting + Effective Length + Capacity

For Example : If we want a Two Legged Assembly with Ring and Hook fittings,

2 Mtr Long with 5 Ton Capacity

EEK-CS2+Ring+Hook+02Mtrs+05Ton

Effective Length / Reach: The Reach of a Chain Sling is the Working Length, measured from the load bearing point on the Master Link of the sling, to the load bearing point of the opposite end, when the sling is pulled taut.

EFFECT OF HEAT ON CHAIN SLINGS

Grade 80 Chain Slings may have to be used in conditions where the chain is subjected to elevated temperatures.

This table gives a general guideline of the reduction in Working Load Limit at higher temperatures.

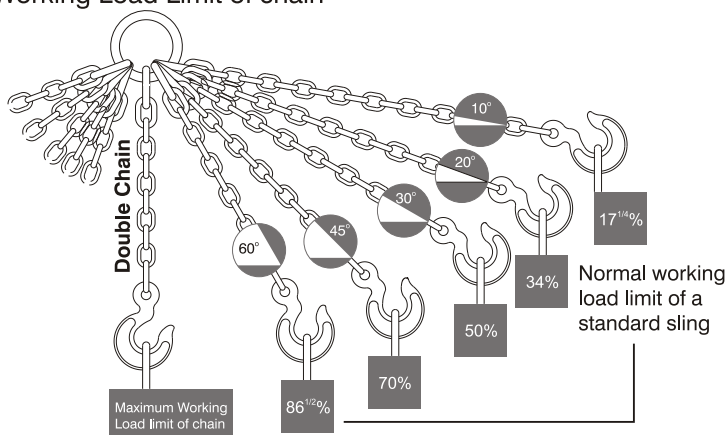
We strongly warn against use of chain slings at temperatures above 400°C

Chain Temperature	Reduction on Working load limit %
Up to 200° C	Nil
200° C- 300° C	10
300° C- 400° C	25

How lifting angles reduce Working Load Limits?

Varying lifting angles

Percentages shown are of the maximum Working Load Limit of chain



DO's and DONT's

DOs

- Select correct size of sling for the load, taking into account the included angle & possibility of unequal loading in case of multi- leg slings.
- Ensure that chain slings are not twisted.
- Ensure the load is fully supported in the bowl of the hook, not on tip .
- Avoid snatch or sudden loads.
- Get your slings inspected by competent person at regular intervals
- Keep register for all slings in use.

DONT's

- Leave slings on the floor when not in use. Hang them on hook .
- Use sling over sharp corners without protective padding
- Trap the sling under a load .
- Use slings which are torn, bent, corroded, locked, stretched or damaged.
- Knot a chain .
- Heat treat grade 80 slings. This is unnecessary & could be dangerous.