

OVERHEAD LIFTING

Chain Sling Working Load Limit Specifications

Use this table as a guide to determine which chain sizes and leg styles are best for your requirements. Using the maximum load (or loads) you will lift, and the angle of lift required – work to the left across this table to determine proper chain size for your sling. Working load limit of the chain and components is established as pounds applied at the indicated degrees from horizontal. The rated capacity of the sling must be based on the smallest horizontal angle. For angles not shown, use the next lower angle or have a qualified person calculate the rated load for the new angle. When using hooks in a shortening (grab) or choker application, the Working Load Limit (WLL) of the sling must be reduced by 20%. The Grade 100 shortening Grab Hooks found on page 20 and 21 of this catalog require no reduction in WLL.

Chain Size		Single Leg Sling	Double Leg Sling			Triple & Quad Leg Sling		
Inches	MM		90°	60°	45°	30°	60°	45°
Grade 80								
7/32	6	2,100	3,600	3,000	2,100	5,500	4,400	3,200
9/32	7	3,500	6,100	4,900	3,500	9,100	7,400	5,200
5/16	8	4,500	7,800	6,400	4,500	11,700	9,500	6,800
3/8	10	7,100	12,300	10,000	7,100	18,400	15,100	10,600
1/2	13	12,000	20,800	17,000	12,000	31,200	25,500	18,000
5/8	16	18,100	31,300	25,600	18,100	47,000	38,400	27,100
3/4	20	28,300	49,000	40,000	28,300	73,500	60,000	42,400
7/8	22	34,200	59,200	48,400	34,200	88,900	72,500	51,300
1	26	47,700	82,600	67,400	47,700	123,900	101,200	71,500
1-1/4	32	72,300	125,200	102,200	72,300	187,800	153,400	108,400
1-1/2	38	100,000	173,200	141,400	100,000	259,800	212,100	150,000
1-3/4	45	131,250	227,300	185,600	131,250	341,000	278,400	196,900
2	50	175,000	303,100	247,500	175,000	454,600	371,200	262,500
Grade 100								
9/32	7	4,300	7,400	6,100	4,300	11,200	9,100	6,400
5/16	8	5,700	9,900	8,100	5,700	14,800	12,100	8,500
3/8	10	8,800	15,200	12,400	8,800	22,900	18,700	13,200
1/2	13	15,000	26,000	21,200	15,000	39,000	31,800	22,500
5/8	16	22,600	39,100	32,000	22,600	58,700	47,900	33,900
3/4	20	35,300	61,100	49,900	35,300	91,700	74,900	53,000
7/8	22	42,700	74,000	60,400	42,700	110,900	90,600	64,000
1	26	59,600	103,200	84,200	59,600	154,800	126,400	89,300

DO NOT load an assembly in excess of the rated working load limits in the chart above.

DO NOT put an unequal load on one leg of a sling. Distribute the load evenly.

DO NOT expose assembly to impact, rapid lifts or sudden stops.

DO NOT tie knots or allow chains to become twisted.

DO NOT use chain that appears to be defective, worn or damaged.

DO NOT fasten chain over sharp corners or edges. Protect with padding.

DO NOT tip load hooks. The latch must NEVER support the load.

When using non-cradle or non-shortening grab hooks in a shortening or choker application, the Working Load Limit (WLL) of the sling must be reduced by 20%

Reference the **SAFETY GUIDELINES** section of this catalog for more information.



Do not exceed Working Load Limits (WLL)!
See the SAFETY GUIDELINES section before using these products. Pages 150 - 155.