

CHAIN SLING BASICS

Lift-All chain slings meet or exceed all OSHA, ASME B30.9 and NACM standards and regulations

Lift-All chain slings, available in grade 100 for 7/32" through 3/4", and grade 80 for 7/8" up to 1-1/4" are recommended for rugged industrial applications in harsh environments where flexibility, abrasion resistance, and long life are required. OSHA required annual inspections can be performed by Lift-All trained personnel.

Features and Benefits

Promotes Safety

- Permanent steel capacity tag is serialized for identification.
- Welded slings offer the security of tamper-proof assemblies.

Saves Money

- Alloy Steel construction assures long life.
- Can be repaired, proof-tested, and re-certified by Lift-All.

Saves Time

- Easy to inspect for damage.
- Stores easily.

Use of Chain Under Heat Conditions

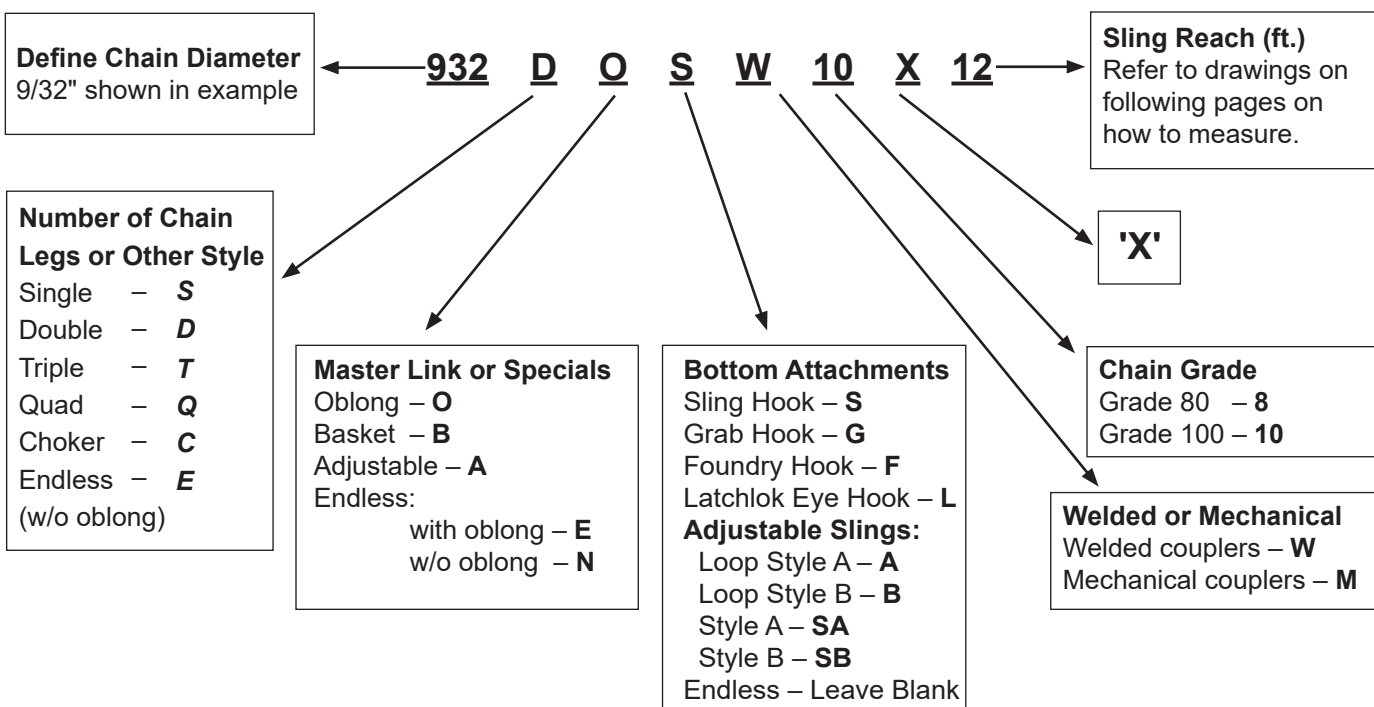
When the chain itself is heated to temperatures shown below, the Working Load Limit (Rated Capacity) should be reduced as indicated.

Temperature of Chain (°F)	Reduction of Working Load Limit While at Temperature		Permanent Reduction of Working Load Limit After Exposure to Temperature	
	Grade 80	Grade 100	Grade 80	Grade 100
Below -40	Do Not Use	Do Not Use	None	None
Below -20	None	Do Not Use	None	None
400	10%	15%	None	None
500	15%	25%	None	5%
600	20%	30%	5%	15%
700	30%	40%	10%	20%
800	40%	50%	15%	25%
900	50%	60%	20%	30%
1000	60%	70%	25%	35%
Over 1000	REMOVE FROM SERVICE			

Consult Lift-All about galvanized chain.

Consult Lift-All about chain to be used in pickling operations.

HOW TO ORDER CHAIN SLINGS



CHAIN SLING BASICS

Grade 100

- Available in sizes 7/32" through 3/4".
- Higher capacity per chain size can be used as an increased safety factor.
- Higher capacity may allow use of smaller diameter chain for your lifts, reducing sling weight and cost.
- Extreme abrasion resistance - more durable.
- Powder-coated attachments for corrosion resistance.

Grade 80

- Available in sizes 7/8" through 1-1/4".
- Greater temperature tolerance.

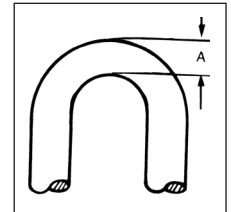
All Chain Slings

- Meet or exceed all OSHA, ASTM and NACM standards.
- Welded or mechanically assembled.

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.

Chain Size (in.)	Minimum Allowable Thickness - A (in.)
7/32	.189
9/32	.239
3/8	.342
1/2	.443
5/8	.546
3/4	.687
7/8	.750
1	.887
1-1/4	1.091



Minimum thickness based on OSHA recommendations.

¹Rated Capacity For Chain Slings

Size of Chain			90°	60°	45°	30°	60°	45°	30°	Nominal Dimensions (in.)		Approx. No. of Links per ft.	Approx. Weight per 100 ft. (lbs.)
Grade	(in.)	(mm.)	Single Chain @ 90° (lbs.)	Double Chain Slings* (lbs.)			Triple & Quad Chain Slings* (lbs.)**			Inside Length	Inside Width		
100	7/32	5.5	2,700	4,700	3,800	2,700	7,000	5,700	4,000	0.676	0.312	17.8	44
100	9/32	7.0	4,300	7,400	6,100	4,300	11,200	9,100	6,400	0.883	0.395	13.6	73
100	3/8	10.0	8,800	15,200	12,400	8,800	22,900	18,700	13,200	1.247	0.574	9.6	144
100	1/2	13.0	15,000	26,000	21,200	15,000	39,000	31,800	22,500	1.559	0.734	7.7	246
100	5/8	16.0	22,600	39,100	32,000	22,600	58,700	47,900	33,900	1.916	0.855	6.3	370
100	3/4	20.0	35,300	61,100	49,900	35,300	91,700	74,900	53,000	2.397	1.070	5.0	580
80	7/8	22.0	34,200	59,200	48,400	34,200	88,900	72,500	51,300	2.250	1.137	5.3	776
80	1	26.0	47,700	82,600	67,400	47,700	123,900	101,200	71,500	2.664	1.348	4.5	995
80	1-1/4	32.0	72,300	125,200	102,200	72,300	187,800	153,400	108,400	3.250	1.656	3.7	1,571

¹ Rated Capacity also referred to as Working Load Limit.

When using chain slings in a choke hitch, reduce the sling's rated capacity by 20%.

** A **Quad Chain Sling** may not sustain the load evenly on each of its' four legs. The maximum working load limits are therefore set at the same values as the **Triple Chain Slings** of equal quality and size, and used with branches at the same angle of inclinations.



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the chain chart on this page and the Effect of Angle chart in the General Information section of this catalog.