



PROOF COIL CHAIN GRADE 28

APPLICATION: Suitable for ordinary purposes such as for log chains, guard rail chains, cargo or deck lashings, towing chains, also used for certain implements, equipment and machinery.

FINISH: Bright – self-colored – hot dipped galvanized

MECHANICAL PROPERTIES: Proof Test 2 times Working Load Limit
* Breaking Force min. 4 times Working Load Limit

*This test is a manufacturers acceptance test and should not be used as a criterion for service or design purposes.

TRADE SIZE	MATERIAL DIAMETER		WORKING LOAD LIMIT		MAXIMUM LENGTH PER 100 LINKS		APPROX. WEIGHT PER 100 FEET (30.5 meters)		STANDARD DRUM		SMALL DRUM	
	inch	mm	pounds	kilo-grams	inches	meters	pounds	kilo-grams	feet	meters	feet	meters
1/8	.157	4.0	400	180	94	2.39	20	9.1	–	–	1500	457.5
3/16	.218	5.5	750	340	99	2.51	40	18.2	1500	457.5	750	228.8
1/4	.281	7.1	1,250	570	104	2.64	68	30.9	800	244.0	400	122.0
5/16	.343	8.7	1,900	860	114	2.89	102	46.3	550	167.8	275	83.9
3/8	.406	10.3	2,650	1,200	128	3.25	147	66.7	400	122.0	200	61.0
7/16	.468	11.9	3,500	1,590	142	3.60	219	99.5	300	91.5	150	45.8
1/2	.531	13.5	4,500	2,040	156	3.96	252	114.4	200	61.0	100	30.5
5/8	.656	16.7	6,900	3,130	194	4.92	406	184.3	150	45.8	75	22.9
3/4	.781	19.8	9,750	4,420	220	5.59	580	263.3	100	30.5	50	15.3
7/8	.905	23.0	11,500	5,220	262	6.65	780	354.1	75	22.9	40	12.2
1	1.024	26.0	15,000	6,810	299	7.59	1,000	454.0	60	18.3	30	9.2

Dimensions and weights are approximate

HIGH TEST CHAIN GRADE 43

T3 – High Test Chain Grade 43 is made from a selected analysis chain steel, carefully heat treated to give very high tensile strength and resistance to wear. It is used in operations where great strength is required such as oil fields, heavy logging, and mining.

FINISH: Bright finish is standard.

MECHANICAL PROPERTIES: Proof Test 1.65 times Working Load Limit.
*Breaking Force min. 3 times Working Load Limit.

*This test is a manufacturers acceptance test and should not be used as a criterion for service or design purposes.

TRADE SIZE	MATERIAL DIAMETER		WORKING LOAD LIMIT		MAXIMUM LENGTH PER 100 LINKS		APPROX. WEIGHT PER 100 FEET (30.5 meters)		STANDARD DRUM		SMALL DRUM	
	inch	mm	pounds	kilo-grams	inches	meters	pounds	kilo-grams	feet	meters	feet	meters
1/4	.281	7.1	2,600	1,180	98	2.49	71	33	800	244.0	400	122.0
5/16	.343	8.7	3,900	1,770	110	2.79	104	47	550	167.8	275	83.9
3/8	.406	10.0	5,400	2,450	134	3.40	148	67	400	122.0	200	61.0



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SPECIAL HIGH TEST CHAIN GRADE 60

T3 - Special High Test Chain Grade 60 is made from a selected analysis chain steel in accordance with DIN 17115 - Aluminum killed to avoid aging, carefully heat treated to give very high tensile strength and resistance to wear. It is used in operations where great strength is required such as oil fields, heavy logging and mining.

**This quality is the result of a wealth of knowledge and experience -
- a product - proven throughout the world.**

FINISH:

Bright finish is standard.

MECHANICAL PROPERTIES: Proof Test 2.5 times Working Load Limit.

*Breaking Force 4 times Working Load Limit.

*This test is a manufacturers acceptance test and should not be used as a criterion for service or design purposes.

TRADE SIZE	MATERIAL DIAMETER		WORKING LOAD LIMIT		MAXIMUM LENGTH PER 100 LINKS		APPROX. WEIGHT PER 100 FEET (30.5 meters)		STANDARD DRUM		SMALL DRUM	
	inch	mm	pounds	kilo-grams	inches	meters	pounds	kilo-grams	feet	meters	feet	meters
1/4	.281	7.1	2,750	1,250	98	2.49	71	33	800	244.0	400	122.0
5/16	.343	8.7	4,000	1,820	110	2.79	104	47	550	167.8	275	83.9
3/8	.406	10.0	5,500	2,500	134	3.40	148	67	400	122.0	200	61.0
7/16	.468	11.9	7,400	3,350	140	3.55	218	99	300	91.5	150	45.8
1/2	.531	13.0	9,400	4,270	160	4.06	250	113	200	61.0	100	30.5
5/8	.630	16.0	14,000	6,350	189	4.80	370	168	150	45.8	75	22.9
3/4	.768	19.5	20,000	9,080	220	5.60	550	249	100	30.5	50	15.3

TRANSPORT or BINDING CHAIN GRADE 70

ENGINEERED FOR LOAD SECUREMENT

FINISH:

Self-colored is standard - bright also available

MECHANICAL PROPERTIES: Proof Test 2 times Working Load Limit.

*Breaking Force 4 times Working Load Limit.

*This test is a manufacturers acceptance test and should not be used as a criterion for service or design purposes.

TRADE SIZE	MATERIAL DIAMETER		WORKING LOAD LIMIT		MAXIMUM LENGTH PER 100 LINKS		APPROX. WEIGHT PER 100 FEET (30.5 meters)		STANDARD DRUM		SMALL DRUM	
	inch	mm	pounds	kilo-grams	inches	meters	pounds	kilo-grams	feet	meters	feet	meters
1/4	.281	7.1	3,150	1,430	98	2.49	71	33	800	244.0	400	122.0
5/16	.343	8.7	4,700	2,130	110	2.79	104	47	550	167.8	275	83.9
3/8	.406	10.3	6,600	3,000	134	3.40	148	67	400	122.0	200	61.0
7/16	.468	11.9	8,750	3,970	140	3.55	218	99	300	91.5	150	45.8
1/2	.531	13.5	11,300	5,130	160	4.06	250	113	200	61.0	100	30.5



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ALLOY STEEL CHAIN GRADE 80

US-STANDARD SPEC.
NACM-SPEC 1975

T3 - Alloy Chain Grade 80 -

a product proven throughout the world for its consistent
QUALITY and RELIABILITY

Grade 80 Chain is made from a carefully selected Cr-Ni-Mo-Alloy Steel, specially engineered to combine strength and durability, used in a variety of sling and tie down applications.

For Lifting applications only Alloy Chain Grade 80 should be used

T3-Alloy Chain Grade 80 is proof tested before shipment and a test certificate is furnished with each invoice.

FINISH: Black finish is standard - bright also available

MECHANICAL PROPERTIES: Proof Test 2 times Working Load Limit
* Breaking Force 3.5 times Working Load Limit
Elongation at Break Test min. 15 %

* This test is a manufacturers acceptance test and should not be used as a criterion for service or design purposes.

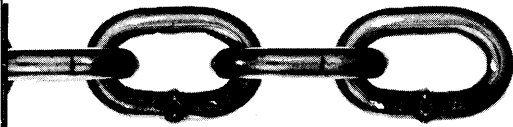
Trade Size inch	Material Diameter		Working Load Limit		Inside Length of Link		Outside Width of Link		Approx. Weight per 100 Feet (30.5 meters)		Standard Drum	
	inch	mm	pounds	kilo-grams	inch	mm	inch	mm	pounds	kilo-grams	feet	meters
7/32	.235	6.0	2,500	1,130	.709	18	.827	21	54	24.4	1000	305.0
9/32	.281	7.1	4,100	1,860	.859	21.8	.945	24	71	32.2	800	244.0
5/16	.315	8.0	5,100	2,310	.945	24	1.102	28	94	42.7	550	167.8
3/8	.394	10.0	7,300	3,310	1.181	30	1.378	35	148	67.1	400	122.0
1/2	.512	13.0	13,000	5,900	1.535	39	1.791	45.5	252	114.4	200	61.0
5/8	.630	16.0	20,300	9,200	1.890	48	2.205	56	383	174.0	150	45.8
3/4	.750	19.1	29,300	13,300	2.362	60	2.755	70	550	250.0	100	30.5
7/8	.875	22.2	39,900	18,100	2.598	66	3.031	77	732	332.5	80	24.4
1	1.024	26.0	52,100	23,600	3.070	78	3.583	91	1020	464.0	60	18.3
1 1/4	1.260	32.0	81,400	36,900	3.780	96	4.409	112	1545	701.5	40	12.2

CAUTION: Never exceed working load limit of chain.

Dimensions and weights are approximate and subject to the standard tolerance of plus or minus 4 %.



MACHINE CHAIN



This is a short link welded chain used where strength, compactness and extra flexibility is needed: tailgates, agricultural implements, and overhead doors.

Straight Link Machine Chain Specifications

Trade Size	Material Size, Inches	Nominal Inside Link Dimensions, Inches		Maximum Length 100 Links, Inches	Maximum Weight Per 100 Ft., Lbs.	Working Load Limit, Lbs.
		Length	Width			
4	.120	.55	.22	57	13	215
2	.148	.61	.27	63	20	325
1	.162	.63	.29	66	24	390
1/0	.177	.74	.32	77	28	465
2/0	.192	.78	.35	81	33	545
3/0	.207	.85	.37	88	38	635
4/0	.218	.95	.40	99	42	750
5/0	.250	1.07	.45	111	56	925



This chain is made from Straight Link, each link being twisted to make it lie more flat and compact.

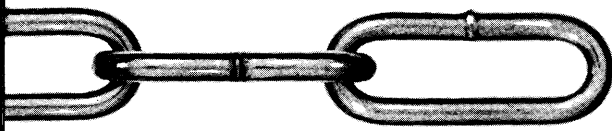
Twist Link Machine Chain Specifications

Trade Size	Material Size, Inches	Nominal Inside Link Dimensions, Inches		Maximum Length 100 Links, Inches	Maximum Weight Per 100 Ft., Lbs.	Working Load Limit, Lbs.
		Length	Width			
4	.120	.52	.18	54	14	205
2	.148	.58	.22	60	21	310
1	.162	.59	.25	61	26	370
1/0	.177	.68	.27	71	30	440
2/0	.192	.73	.29	76	35	520
3/0	.207	.80	.32	83	42	605
4/0	.218	.89	.34	93	46	670
5/0	.250	1.00	.38	104	59	880

Finish: Bright, Zinc Plated or Hot Galvanized can be case hardened if specified.



COIL CHAIN



Coil Chain has longer inside length than proof coil and Machine Chain, and is less flexible. It is used as animal tie-out chain, agricultural implement chain, and platform guard chain, etc.

Straight Link (Long Link) Coil Chain Specifications

Trade Size	Material Size, Inches	Nominal Inside Link Dimensions, Inches		Maximum Length 100 Links, Inches	Maximum Weight Per 100 Ft., Lbs.	Working Load Limit, Lbs.
		Length	Width			
4	.120	1.11	.22	115	10.4	250
2	.148	1.18	.27	123	16	310
1	.162	1.25	.29	130	20	370
1/0	.177	1.25	.32	130	24	440
2/0	.192	1.26	.35	131	28	520
3/0	.207	1.30	.37	135	33	605
4/0	.218	1.39	.39	145	36	670
5/0	.250	1.52	.45	158	48	880



This chain is made from straight link. Each link is twisted to make it lie more flat and compact

Twist Link Coil Chain Specifications

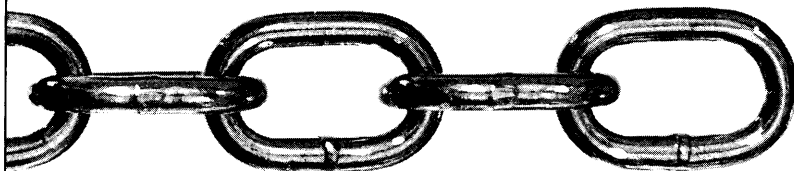
Trade Size	Material Size, Inches	Nominal Inside Link Dimensions, Inches		Maximum Length 100 Links, Inches	Maximum Weight Per 100 Ft., Lbs.	Working Load Limit, Lbs.
		Length	Width			
4	.120	1.09	.19	113	10.4	195
2	.148	1.15	.23	120	17	295
1	.162	1.22	.26	127	21	350
1/0	.177	1.22	.28	127	25	415
2/0	.192	1.24	.30	129	29	495
3/0	.207	1.26	.33	131	34	575
4/0	.218	1.34	.34	139	37	635
5/0	.250	1.47	.39	153	50	835

Finish: Bright, Zinc Plated or Hot Galvanized. Can be case hardened if specified.



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PASSING LINK CHAIN



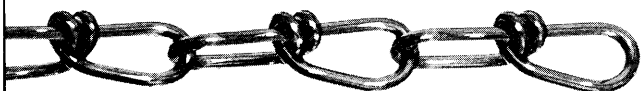
This chain is made with links sufficiently wide to permit the links to pass each other easily, thereby reducing kinking and tangling. Used extensively around the farm and for general utility purposes.

Passing Link Chain Specifications

Trade Size	Material Size, Inches	Inside Length, Inches	Inside Width, Inches	Max. Length Per 100 Links, Inches	Wt. Per 100 Ft., Lbs.
2/0	.192	.88	.47	91.0	33
4/0	.218	.88	.50	91.0	45

CHAMPION CHAIN (Double Loop)

(Bow Tie)



Machine woven from low carbon wire. Double loop is used on playground and gymnasium equipment, and as farm and animal chain for hactrs, leashes, tie-outs and dog runners.

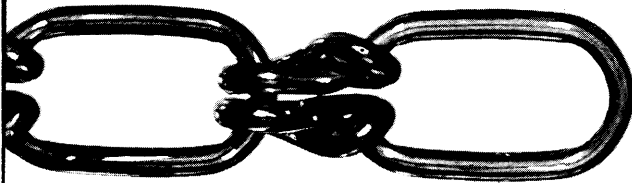
Champion Chain Specifications

Trade Size	Gauge	Material Size, Inches	Maximum Length Per 100 Links, Inches	Wt. Per 100 Ft., Lbs. (Steel)	Working Load Limit, Lbs.
5	16	.062	92	4.0	55
4	15	.072	100	5.0	70
3	14	.080	110	6.0	90
2	13	.091	133	8.0	115
1	12	.105	154	10.0	155
1/0	11	.120	178	13.0	200
2/0	10	.135	182	17.0	255
3/0	9	.148	217	20.0	305
4/0	8	.162	219	25.0	365
8/0	4	.225	290	51.0	705

Finish: Bright, Zinz Plated, or Hot Dipped Galvanized.



LOCK LINK CHAIN



This flexible chain is widely used where a sprocket or valve wheel is the power mechanism. It is the strongest weldless pattern and is often used as a lower cost substitute for comparable welded chain as in home fire escapes.

Lock Link Chain Specifications

Trade Size	Gauge	Material Size, Inches	Maximum Length Per 100 Links, Inches	Wt. Per 100 Ft., Lbs. (Steel)	Working Load Limit, Lbs.
2	13	.091	108	10.0	155
1/0	11	.120	129	17.0	265
2/0	10	.135	148	22.0	340
3/0	9	.148	163	26.0	405
4/0	8	.162	180	31.0	485
5/0	7	.177	215	35.0	580

Finish: Bright, Zinc Plated or Hot Galvanized.

JACK CHAIN



Used where high strength is not required such as hanging small signs, fixtures, etc.

Single Jack Chain Specifications

Trade Size	Material Size, Inches	Maximum Length Per 100 Links, Inches	Wt. Per 100 Ft., Lbs.		Working Load Limit, Lbs.	
			Steel	Brass	Steel	Brass
20	.034	30	1.0	1.0	3	2
16	.062	50	2.9	3.0	10	8
14	.080	63	4.8	5.0	16	11
12	.105	75	8.5	9.25	29	20
10	.135	93	14.0	15.5	43	34
8	.162	109	21.0	21.5	60	43
6	.192	124	30.0	31.00	88	66



Double Jack Chain Specifications

Trade Size	Material Size, Inches	Maximum Length Per 100 Links, Inches	Wt. Per 200 Ft. Lbs.	Working Load Limit, Lbs.
16	.062	34	9	11

Finish: Bright, Zinc Plated or Brass



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SASH CHAIN



Used for operating controls,
window sash, pictures etc.

Sash Chain Specifications

Trade Size	Material Size, Inches	Maximum Length Per 100 Links, Inches	Wt. Per 100 Ft., Lbs. (Steel)	Working Load Limit, Lbs.	
				Steel	Bronze
8	.035	55.5	4	75	68
25	.042	55.5	4.5	94	80
35	.035	56.0	6	106	100
40	.042	56.5	7	131	125
50	.060	62.5	11.25	225	210

Finish: Bright, Coppered, Zinc Plated in Steel. Also available in Solid Bronze.

SAFETY CHAIN

(Plumbers)



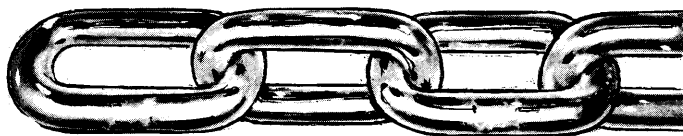
Slightly stronger than Jack Chain.
Used for operating controls such as
ducts or dampers, pictures and
suspended ceilings, etc.

Safety Chain Specifications

Trade Size	Material Size, Inches	Maximum Length Per 100 Links, Inches	Wt. Per 100 Ft., Lbs. (Steel)	Working Load Limit, Lbs.	
				Steel	Brass
2/0	.018	44	1.25	31	23
1/0	.023	50	1.75	40	35
1	.028	59	3.5	58	45



ALUMINUM CHAIN

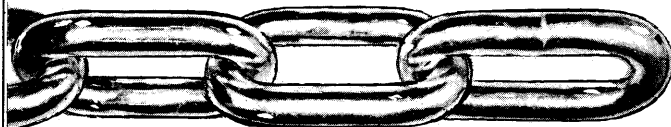


$\frac{3}{16}$ " P.C.

ALUMINUM CHAINS

Style	Material	Thickness	Std. Lgth.	Approx. Weight	Dimension I.D.	Proof Test
WELDED						
$\frac{1}{2}$ " PC	Aluminum	.531	100 ft	91# c/ft	$1\frac{1}{2}$ " x $13/16$ "	2000 lbs
$3/8$ " PC	Aluminum	.406	100 ft	54# c/ft	$1-3/16$ " x $11/16$ "	1200 lbs
$5/16$ " PC	Aluminum	.343	100 ft	36# c/ft	$1-1/8$ " x $1/2$ "	850 lbs
$1/4$ " PC	Aluminum	.281	100 ft	24# c/ft	1 " x $15/32$ "	550 lbs
$3/16$ " PC	Aluminum	.218	100 ft	15# c/ft	$15/16$ " x $3/8$ "	350 lbs
WELDLESS						
#3 BOWTYE	Aluminum	.080	100 ft	2# c/ft		
12S/J	Aluminum	.105	100 ft	4# c/ft		
35 SASH	Aluminum	.035	500 ft	2.6# c/ft		
8 SASH	Aluminum	.035	500 ft	2# c/ft		
2/0 SAFETY	Aluminum	.018	500 ft	$1\frac{1}{2}$ c/ft		

BRASS & BRONZE WELDED CHAIN

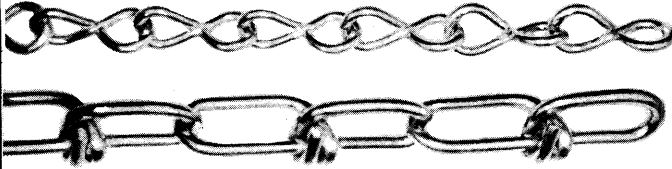


$\frac{3}{16}$ " P.C.

Style	Thickness	Approx. Weight	Dimensions I.D.	Proof Test	Quant. Sched.
STRAIGHT LINK					
$3/8$ " PC	.375	133# c/ft	$1\frac{1}{4}$ " x $5/8$ "	1500 lbs	D
$5/16$ " PC	.312	91# c/ft	$1-3/16$ " x $1/2$ "	850 lbs	D
$1/4$ " PC	.250	65# c/ft	1 " x $3/8$ "	550 lbs	D
$3/16$ " PC	.218	43# c/ft	1 " x $15/32$ "	350 lbs	D
$1/8$ " PC	.125	15# c/ft	$11/16$ " x $1/4$ "	100 lbs	D
494 $\frac{1}{4}$	.250	45# c/ft	$1\frac{3}{4}$ " x $1/2$ "	450 lbs	D
L-151	.162	28# c/ft	$1\frac{1}{4}$ " x $7/16$ "	200 lbs	D
TWIST LINK					
$3/8$ " PC	.375	137# c/ft			D
$5/16$ " PC	.312	93# c/ft			D
$1/4$ " PC	.250	68# c/ft			D
$3/16$ " PC	.218	45# c/ft			D
#1 TWIST	.162	28# c/ft			D
$1/8$ " PC	.125	16# c/ft			D



STAINLESS STEEL CHAIN



16 S/J

No. 3

Style	Material	Thickness	Std. Lgth.	Approx. Weight	Dimension I.D.	Proof Test
WELDED						
3/8"PC	S/S Type 316	.375	50 ft	130# c/ft	1-5/16" x 19/32"	4500 lbs
5/16"PC	S/S Type 316	.312	100 ft	92# c/ft	1-3/16 x 9/16"	3500 lbs
1/4"PC	S/S Type 316	.250	100 ft	57# c/ft	1-1/8" x 7/16"	2500 lbs
3/16"PC	S/S Type 316	.218	100 ft	40# c/ft	1" x 3/8"	1500 lbs
1/8"PC	S/S Type 316	.125	100 ft	13# c/ft	21/64" x 1/4"	300 lbs
5 COIL	S/S Type 304	.105	100 ft	7 1/4# c/ft	1-1/8" x 5/64"	150 lbs
WELDLESS						
2/0 BOWTYE	S/S Type 304	.135	100 ft	18# c/ft		
#1 BOWTYE	S/S Type 304	.105	100 ft	11# c/ft		
#3 BOWTYE	S/S Type 304	.080	100 ft	6 1/2# c/ft		
10S/J	S/S Type 304	.135	50 ft	15# c/ft		
12S/J	S/S Type 304	.105	100 ft	10# c/ft		
14S/J	S/S Type 304	.080	100 ft	5 1/2# c/ft		
16S/J	S/S Type 304	.062	100 ft	3 1/2# c/ft		
18S/J	S/S Type 304	.047	100 ft	2 1/4# c/ft		
19S/J	S/S Type 304	.041	50 ft	2# c/ft		
17D/J	S/S Type 304	.054	100 ft	3 1/2# c/ft		
35 SASH	S/S Type 304	.035	500 ft reel	6# c/ft		
25 SASH	S/S Type 304	.042	500 ft reel	5# c/ft		
8 SASH	S/S Type 304	.035	500 ft reel	4# c/ft		
2/0 SAFETY	S/S Type 304	.018	500 reel	1.25 c/ft		

PLASTIC CHAIN



SIZES, COLOURS, PRICES ON REQUEST



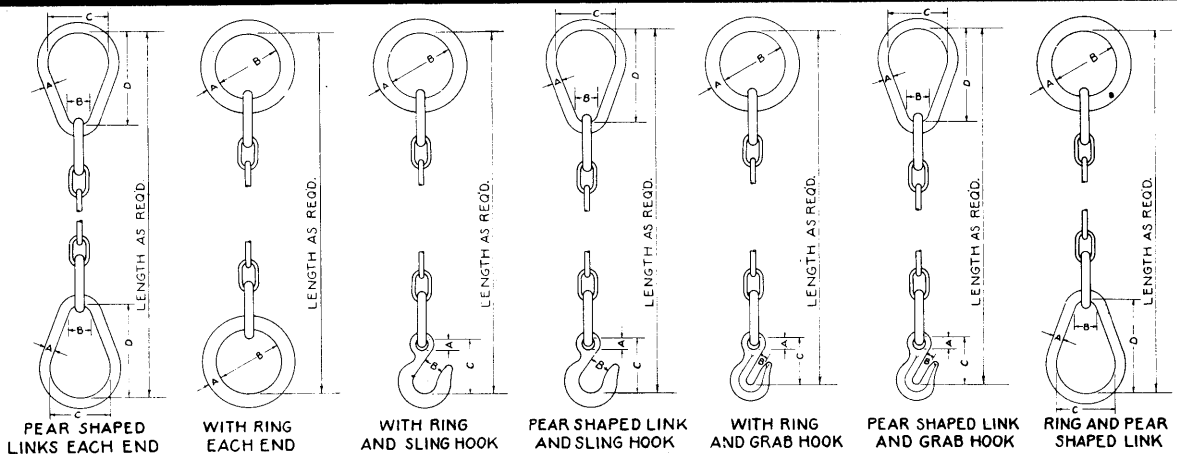
W.J. KEATING LIMITED

CHAIN SLINGS

**MONEL, INCONEL, NICKEL, HASTELLOY, STAINLESS STEEL,
TIMKEN ALLOY 16—25—6, AND NIONEL**

LINK SPECIFICATIONS, SHOWING SAFE LOADS FOR MONEL CHAIN (factor of safety is 6)

SIZE	INSIDE LENGTH	INSIDE WIDTH	LINK PER FT.	WEIGHT PER FT.	PROOF TEST				
1/4	1	9/16	12.00	.64	3400	1130	1960	1600	1130
5/16	1 1/8	5/8	10.67	1.25	5300	1770	3070	2500	1770
3/8	1 3/8	3/4	8.72	1.77	7600	2550	4420	3610	2550
7/16	1 3/8	13/16	8.72	2.28	10400	3470	6010	4910	3470
1/2	1 1/2	7/8	8.00	2.96	13600	4540	7860	6410	4540
9/16	1 3/4	1	6.85	3.70	16200	5400	9350	7640	5400
5/8	2 1/8	1	5.64	4.56	20000	6670	11550	9430	6670
11/16	2 1/4	1 3/16	5.33	5.12	24000	8070	13970	11410	8070
3/4	2 3/8	1 3/16	5.05	6.73	29000	9600	16630	13580	9600
13/16	2 1/2	1 5/16	4.80	7.28	34000	11270	19520	15930	11270
7/8	2 5/8	1 3/8	4.57	9.12	39000	13070	22630	18480	13070
15/16	2 13/16	1 1/2	4.26	10.11	45000	15000	25980	21210	15000
1	3	1 5/8	4.00	11.40	51000	17070	29560	24140	17070
1 1/8	3 1/4	1 3/4	3.69	14.82	73000	24470	42390	34610	24470
1 1/4	3 5/8	1 7/8	3.31	17.10	90000	30210	52340	42730	30210



SINGLE SLING CHAIN, RECOMMENDED ASSEMBLY

ALL DIMENSIONS IN INCHES

CHAIN SIZE	CONN. LINK	RINGS		PEAR SHAPED END LINKS				SLIP HOOKS			GRAB HOOKS		
		A	B	A	B	C	D	A	B	C	A	B	C
1/4	3/8	1/2	3	1/2	1 1/2	3 1/2	6	7/16	1	2 7/8	7/16	13/32	2 1/32
5/16	3/8	1/2	3	1/2	1 1/2	3 1/2	6	1/2	1 1/32	3 1/8	1/2	15/32	2 3/16
3/8	1/2	3/4	4	5/8	1 1/2	3 1/2	6	9/16	1 7/32	3 7/16	9/16	1/2	2 3/32
7/16	1/2	3/4	4	3/4	1 1/2	3 1/2	6	5/8	1 3/8	3 15/16	5/8	19/32	2 15/16
1/2	5/8	7/8	4	7/8	1 1/2	3 1/2	6	11/16	1 5/8	4 1/4	11/16	21/32	4 5/32
9/16	5/8	1	4	1	1 1/2	3 1/2	6	13/16	1 13/16	5 1/4	13/16	3/4	4 21/32
5/8	3/4	1 1/8	5	1	2	4	8	13/16	1 13/16	5 1/4	13/16	3/4	4 21/32
11/16	3/4	1 1/8	5	1 1/8	2	4	8	15/16	2 1/32	5 5/8	15/16	29/32	5 9/16
3/4	7/8	1 1/4	6	1 1/4	2	4	8	15/16	2 1/32	5 5/8	15/16	29/32	5 9/16
13/16	7/8	1 3/8	6	1 3/8	2	4	8	1 1/8	2 7/16	8 1/16	1 1/8	1 1/16	6 15/16
7/8	1	1 1/2	6	1 1/2	3	6	12	1 1/8	2 7/16	8 1/16	1 1/8	1 1/16	6 15/16
15/16	1	1 1/2	6	1 3/4	3	6	12	1 7/16	2 7/8	9 11/32	1 7/16	1 3/16	7 31/32
1	1 1/8	1 3/4	7	1 3/4	3	6	12	1 7/16	2 7/8	9 11/32	1 7/16	1 3/16	7 31/32
1 1/8	1 1/4	1 3/4	8	1 3/4	3	6	12	(Special)			(Special)		
1 1/4	1 3/8	2	9	2	3 1/2	7	14	"			"		