

CHAINS





Reliable

Competitive

Professional

Qingdao Powerful Machinery Co., Ltd. is located in Qingdao, one of the largest port cities in China. As China's leading manufacturer of rigging, lifting, and material handling applications, Powerful Machinery delivers a diverse portfolio of products engineered to exceed the toughest demands of any industry, construction, cargo handling, towing, marine, and transportation.

Our products include welded chains, G80 and G100 lifting chains & accessories, hooks, shackles, hoist rings, master links, chain slings, turnbuckles, snatch blocks, wire rope & fittings and a host of other custom-engineered solutions: the most comprehensive portfolio in the industry.

Powerful Machinery has 20 years of export experience, with customers in dozens of countries around the world. Our products are exported to Europe, America, Southeast Asia, the Middle East, Australia, and many other regions.

At Powerful Machinery, We have a team of professionals working together to provide our customers with the best products and services. When you choose Powerful Machinery, you are guaranteed more than superior products—you are guaranteed the quality assurance that comes with a customer service team committed to exceeding end-user expectations.

At Powerful Machinery, it's not just about lifting products; it's about working with a trusted partner who is invested in your success.

POWERFUL
MACHINERY 普丰机械

COMPANY PROFILE

CHAIN SLINGS



SINGLE LEG CHAIN SLING

SPECTRUM 8 CHAIN SIZE	MASTER LINK	MASTER LINK ASSEMBLY	MASTER LINK WITH FLAT	MASTER LINK ASSEMBLY WITH FLAT	LOK-A-LOY LINK	CHAIN COUPLER	LATCHING CLEVIS CHAIN HOOK	LATCHING EYE HOOK	SHUR-LOC EYE HOOK	SHUR-LOC CLEVIS HOOK	SHUR-LOC SWIVEL HOOK	CLEVIS SLING HOOK	CLEVIS GRAB HOOK	EYE SLING HOOK	EYE GRAB HOOK	EYE FOUNDRY HOOK
1/4	1/2	-	7/16	-	1/4	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4	1/4	1/4	1/4	1/4
5/16	5/8	-	1/2	-	5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	-	-	-	-	-
3/8	3/4	-	11/16	-	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
1/2	7/8	-	3/4	-	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
5/8	1	-	1	-	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
3/4	1-1/4	-	1-1/4	-	3/4	-	-	-	-	-	-	3/4	3/4	3/4	3/4	3/4
7/8	1-1/2	-	1-1/4	-	7/8	-	-	-	-	-	-	7/8	7/8	7/8	7/8	7/8

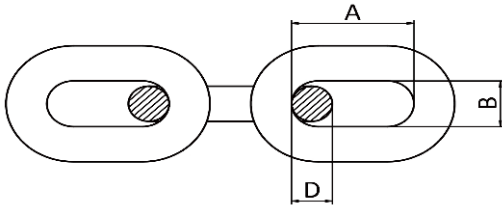
DOUBLE LEG CHAIN SLING

SPECTRUM 8 CHAIN SIZE	MASTER LINK	MASTER LINK ASSEMBLY	MASTER LINK WITH FLAT	MASTER LINK ASSEMBLY WITH FLAT	LOK-A-LOY LINK	CHAIN COUPLER	LATCHING CLEVIS CHAIN HOOK	LATCHING EYE HOOK	SHUR-LOC EYE HOOK	SHUR-LOC CLEVIS HOOK	SHUR-LOC SWIVEL HOOK	CLEVIS SLING HOOK	CLEVIS GRAB HOOK	EYE SLING HOOK	EYE GRAB HOOK	EYE FOUNDRY HOOK
1/4	1/2	-	1/2	-	1/4	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4	1/4	1/4	1/4	1/4
5/16	5/8	-	11/16	-	5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	-	-	-	-	-
3/8	3/4	-	3/4	-	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
1/2	7/8	-	7/8	-	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
5/8	1	-	1-1/8	-	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
3/4	1-1/4	-	1-1/4	-	3/4	-	-	-	-	-	-	3/4	3/4	3/4	3/4	3/4
7/8	1-1/2	-	-	-	7/8	-	-	-	-	-	-	7/8	7/8	7/8	7/8	7/8

TRIPLE AND QUADRUPLE LEG CHAIN SLING

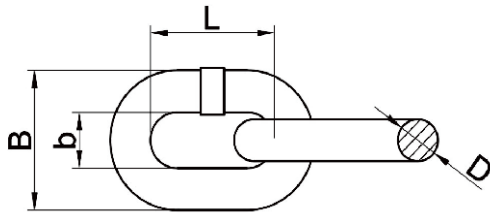
SPECTRUM 8 CHAIN SIZE	MASTER LINK	MASTER LINK ASSEMBLY	MASTER LINK WITH FLAT	MASTER LINK ASSEMBLY WITH FLAT	LOK-A-LOY LINK	CHAIN COUPLER	LATCHING CLEVIS CHAIN HOOK	LATCHING EYE HOOK	SHUR-LOC EYE HOOK	SHUR-LOC CLEVIS HOOK	SHUR-LOC SWIVEL HOOK	CLEVIS SLING HOOK	CLEVIS GRAB HOOK	EYE SLING HOOK	EYE GRAB HOOK	EYE FOUNDRY HOOK
1/4	-	3/4	-	3/4	1/4	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4	1/4	1/4	1/4	1/4
5/16	7/8	1	-	3/4	5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	-	-	-	-	-
3/8	-	1	-	7/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
1/2	-	1-1/4	-	1-1/8	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
5/8	-	1-1/2	-	1-1/4	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
3/4	-	1-3/4	-	-	3/4	-	-	-	-	-	-	3/4	3/4	3/4	3/4	3/4
7/8	-	2	-	-	7/8	-	-	-	-	-	-	7/8	7/8	7/8	7/8	7/8

DIN EN818-2 GRADE 80 LIFTING CHAINS



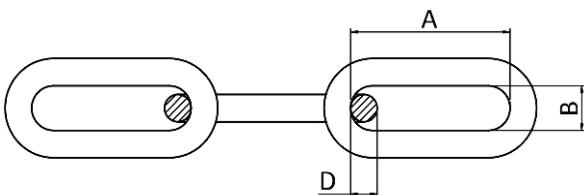
NOMINAL SIZE	INTERNAL LENGTH	INTERNAL WIDTH	WORKING LOAD LIMIT	MANUFACTURING PROOF FORCE	MIN. BREAKING FORCE	WEIGHT
D	A	B				
MM	MM	MM	TON	KN	KN	KG/M
6	18	9.0	1.1	28.3	45.2	0.802
7	21	10.0	1.5	38.5	61.6	1.083
8	24	11.5	2.0	50.3	80.4	1.416
10	30	14.5	3.2	78.5	126.0	2.216
13	39	19.0	5.3	133.0	212.0	3.749
16	48	23.5	8.0	201.0	322.0	5.571
18	54	25.0	10.0	254.0	407.0	7.154
19	57	26.0	11.2	284.0	454.0	7.773
20	60	28.0	12.5	314.0	503.0	8.641
22	66	29.5	15.0	380.0	608.0	10.391
26	78	37.0	21.2	531.0	849.0	14.640
32	96	48.0	31.5	804.0	1290.0	22.358

G100 SHORT LINK CHAIN FOR LIFTING PURPOSES



NOMINAL SIZE	INTERNAL LENGTH	EXTERNAL WIDTH	INTERNAL WIDTH	WORKING LOAD LIMIT	MANUFACTURING PROOF FORCE	MIN. BREAKING FORCE	WEIGHT
D	L	B	b				
MM	MM	MM	MM	TON	KN	KN	KG/M
5	15	16.5	6.5	1.0	24.5	39.3	0.55
6	18	21.0	9.0	1.4	35.3	56.5	0.86
7	21	24.0	10.0	1.9	48.1	77.0	1.16
8	24	27.5	11.5	2.5	62.8	101.0	1.49
10	30	34.5	14.5	4.0	98.1	157.0	2.31
13	39	45.0	19.0	6.7	166.0	265.0	3.87
16	48	55.5	23.5	10.0	251.0	402.0	5.72
18	54	61.0	25.0	12.5	318.0	509.0	7.15
19	57	64.0	26.0	14.0	354.0	567.0	7.94
20	60	68.0	28.0	16.0	393.0	628.0	8.82
22	66	73.5	29.5	19.0	475.0	760.0	10.39

G80 LONG LINK LASHING CHAINS

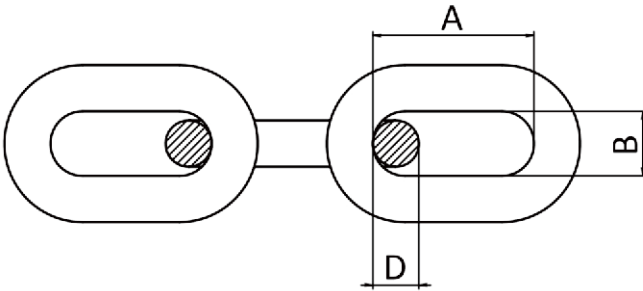


SIZE(D) (MM)	A (MM)	B (MM)	MBL TON	WEIGHT KG/M
9	57	16	10.2	1.5
11	66	18	15.4	2.1
13	80	23	21.4	3.0
16	100	26	32.0	4.4
19	100	28	45.0	6.5
20	100	30	50.0	7.3
22	120	32	60.0	8.5

US STANDARD LINK CHAINS

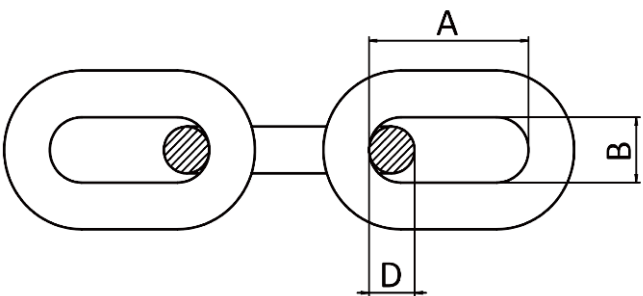


US TYPE NACM2010 PROOF COIL CHAIN (G30)



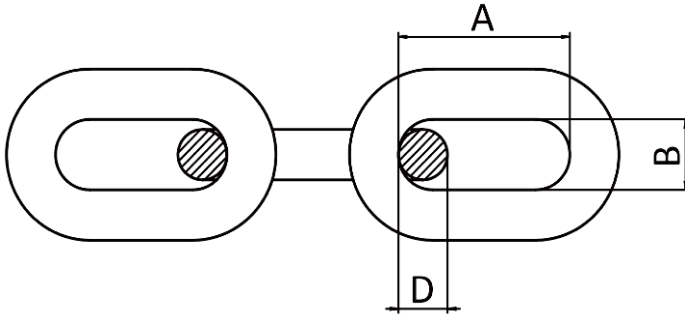
NOMINAL SIZE(D)		MATERIAL DIAMETER		WORKING LOAD LIMIT		PROOF TEST (MIN)		BREAKING FORCE(MIN)		INSIDE LENGTH (A)		INSIDE WIDTH (B)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
4.0	1/8	4.0	0.156	180	400	3.6	800	7.2	1600	23.9	0.94	6.4	0.25
5.5	3/16	5.5	0.217	365	800	7.2	1600	14.4	3200	24.8	0.98	7.7	0.30
7.0	1/4	7.0	0.276	580	1300	11.6	2600	23.2	5200	31.5	1.24	9.8	0.38
8.0	5/16	8.4	0.331	860	1900	16.9	3800	33.8	7600	32.8	1.29	11.2	0.44
10.0	3/8	10.0	0.394	1200	2650	23.6	5300	47.2	10600	35.0	1.38	14.0	0.55
11.9	7/16	11.9	0.488	1680	3700	32.9	7400	65.8	14800	41.6	1.64	16.6	0.65
13.0	1/2	13.0	0.512	2030	4500	40.0	9000	80.0	18000	45.5	1.79	18.2	0.72
16.0	5/8	16.0	0.630	3130	6900	61.3	13800	122.6	27600	56.0	2.20	20.0	0.79
20.0	3/4	20.0	0.787	4800	10600	94.3	21200	188.6	42400	70.0	2.76	25.0	0.98
22.0	7/8	22.0	0.866	5810	12800	114.1	25600	228.2	51200	77.0	3.03	27.5	1.08
26.0	1	26.0	1.020	8140	17900	159.1	35800	318.2	71600	90.9	3.58	31.7	1.25

US TYPE NACM2010 HIGH TEST CHAIN (G43)



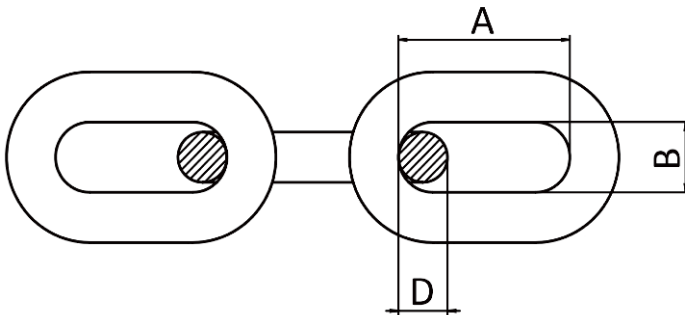
NOMINAL SIZE(D)		MATERIAL DIAMETER		WORKING LOAD LIMIT		PROOF TEST (MIN)		BREAKING FORCE(MIN)		INSIDE LENGTH (A)		INSIDE WIDTH (B)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
7.0	1/4	7.0	0.276	1180	2600	17.3	3900	34.6	7800	31.5	1.24	9.8	0.38
8.7	5/16	8.7	0.343	1770	3900	26.0	5850	52.0	11700	32.8	1.29	11.2	0.44
10.0	3/8	10.3	0.406	2450	5400	36.0	8100	72.0	16200	35.0	1.38	14.0	0.55
11.9	7/16	11.9	0.468	3270	7200	48.0	10800	96.0	21600	41.6	1.64	16.6	0.65
13.0	1/2	13.5	0.531	4170	9200	61.3	13800	122.6	27600	45.5	1.79	18.2	0.72
16.0	5/8	16.0	0.630	5910	13000	86.5	19500	173.0	39000	56.0	2.2	20.0	0.79
20.0	3/4	20.0	0.787	9180	20200	134.7	30300	269.4	60600	70.0	2.76	25.0	0.98
22.0	7/8	22.0	0.866	11140	24500	163.3	36750	326.6	73500	77.0	3.03	27.5	1.08

US TYPE NACM2010 TRANSPORT CHAIN(G70)



NOMINAL SIZE(D)		MATERIAL DIAMETER		WORKING LOAD LIMIT		PROOF TEST (MIN)		BREAKING FORCE MIN		INSIDE LENGTH (A)		INSIDE WIDTH (B)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
7	1/4	7.0	0.281	1430	3150	28.0	6300	56.0	12600	31.5	1.24	9.8	0.38
8.7	5/16	8.7	0.343	2130	4700	41.8	9400	83.6	18800	32.8	1.29	11.2	0.44
10	3/8	10.3	0.406	2990	6600	58.7	13200	117.4	26400	35.0	1.38	14.0	0.55
11.9	7/16	11.9	0.468	3970	8750	77.8	17500	155.4	35000	41.6	1.64	16.6	0.65
13	1/2	13.5	0.531	5130	11300	100.4	22600	200.8	45200	45.5	1.79	18.2	0.72
16	5/8	16.0	0.63	7170	15800	140.4	31600	280.8	63200	56.0	2.20	20.0	0.79
20	3/4	20.0	0.787	11200	24700	219.6	49400	439.2	98800	70.0	2.76	25.0	0.98

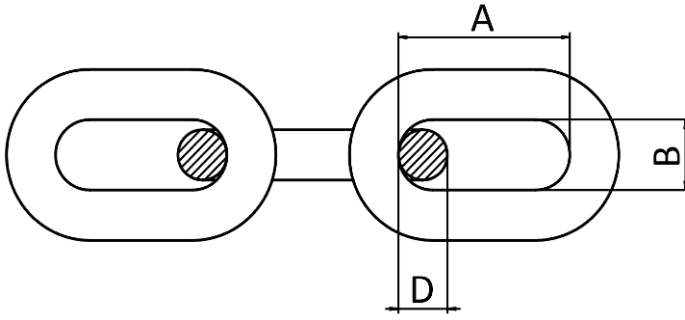
US TYPE NACM2010 ALLOY CHAIN(G80)



(FOR OVERHEAD LIFTING APPLICATIONS, ONLY ALLOY CHAIN SHOULD BE USED)

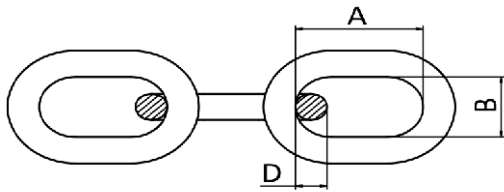
NOMINAL SIZE(D)		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX.)		PROOF TEST (MIN)		MINIMUM BREAKING FORCE		INSIDE LENGTH(MAX) (A)		INSIDE WIDTH RANGE (B)	
IN	MM	IN	MM	LBS	KG	LBS	KN	LBS	KN	IN	MM	IN	MM
7/32	5.5	0.217	5.5	2,100	970	4,200	19.0	8,400	38.0	0.69	17.6	0.281-0.325	7.14-8.25
9/32	7.0	0.276	7.0	3,500	1,570	7,000	30.8	14,000	61.6	0.90	22.9	0.375-0.430	9.53-10.92
5/16	8.0	0.315	8.0	4,500	2,000	9,000	40.3	18,000	80.6	1.04	26.4	0.430-0.500	10.92-12.70
3/8	10.0	0.394	10.0	7,100	3,200	14,200	63.0	28,400	126.0	1.26	32.0	0.512-0.600	13.00-15.20
1/2	13.0	0.512	13.0	12,000	5,400	24,000	107.0	48,000	214.0	1.64	41.6	0.688-0.768	17.48-19.50
5/8	16.0	0.630	16.0	18,000	8,200	36,200	161.0	72,400	322.0	2.02	51.2	0.812-0.945	20.63-24.00
3/4	20.0	0.787	20.0	28,300	12,800	56,600	252.0	113,200	504.0	2.52	64.0	0.984-1.180	25.00-30.00
7/8	22.0	0.866	22.0	34,200	15,500	68,400	305.0	136,800	610.0	2.77	70.4	1.080-1.300	27.50-33.00
1	26.0	1.020	26.0	47,700	21,600	95,400	425.0	190,800	850.0	3.28	83.2	1.280-1.540	32.50-39.00
1-1/4	32.0	1.260	32.0	72,300	32,800	144,600	644.0	289,200	1288.0	4.03	102.4	1.580-1.890	40.00-48.00

US TYPE NACM2010 STAINLESS STEEL CHAIN



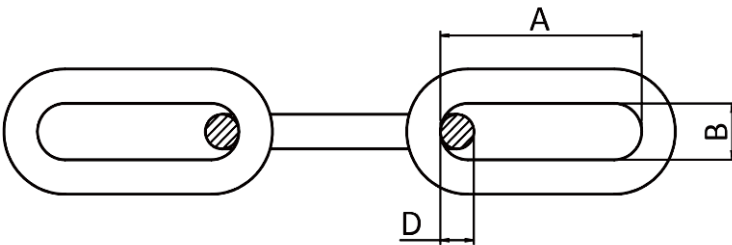
SIZE(D)		MATERIAL DIAMETER		WORKING LOAD LIMIT(MAX)		PROOF TEST(MIN)		MINIMUM BREAKING FORCE		INSIDE LENGTH (MAX)(A)		INSIDE WIDTH (MIN)(B)	
IN	MM	IN	MM	LBS	KG	LBS	KN	LBS	KN	IN	MM	IN	MM
5/32	4.0	0.156	4.0	500	230	1,000	4.5	2,000	9.0	0.94	23.9	0.25	6.4
3/16	5.0	0.197	5.0	930	420	1,860	8.3	3,720	16.6	0.98	24.8	0.30	7.7
7/32	5.5	0.218	5.5	1,200	540	2,400	10.7	4,800	21.4	0.98	24.8	0.25	6.4
1/4	6.5	0.250	6.5	1,570	710	3,140	14.0	6,280	28.0	1.24	31.5	0.30	7.7
9/32	7.0	0.276	7.0	2,000	910	4,000	17.8	8,000	35.6	1.24	31.5	0.34	8.6
5/16	8.0	0.315	8.0	2,400	1,090	4,800	21.4	9,600	42.8	1.29	32.8	0.38	9.8
3/8	10.0	0.394	10.0	3,550	1,610	7,100	31.6	14,200	63.2	1.38	35.0	0.55	14.0
7/16	12.0	0.472	12.0	5,400	2,450	10,800	48.1	21,600	96.2	1.64	41.6	0.65	16.6
1/2	13.0	0.512	13.0	6,500	2,950	13,000	58.0	26,000	116.0	1.79	45.5	0.62	15.8
5/8	16.0	0.630	16.0	9,800	4,450	19,600	87.0	39,200	174.0	2.20	56.0	0.79	20.0
3/4	20.0	0.750	20.0	15,000	6,820	30,000	134.0	60,000	268.0	2.85	72.4	0.98	55.0
1	26.0	1.000	26.0	23,250	10,570	46,500	207.0	93,000	414.0	3.58	90.0	1.25	31.7

US TYPE NACM2010 PASSING LINK CHAIN



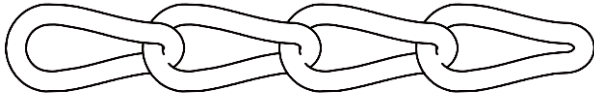
SIZE(D)		MATERIAL DIAMETER		WORKING LOAD		PROOF TEST		BREAKING LOAD		INSIDE LENGTH (A)		INSIDE WIDTH (B)	
MM	NO	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
4.9	2/0	4.9	0.192	204	450	4.00	900	8.01	1800	22.2	0.875	11.9	0.47
5.5	4/0	5.5	0.218	272	600	5.34	1200	10.68	2400	22.2	0.875	12.7	0.50

US TYPE NACM 2010 COIL STRAIGHT LINK CHAIN



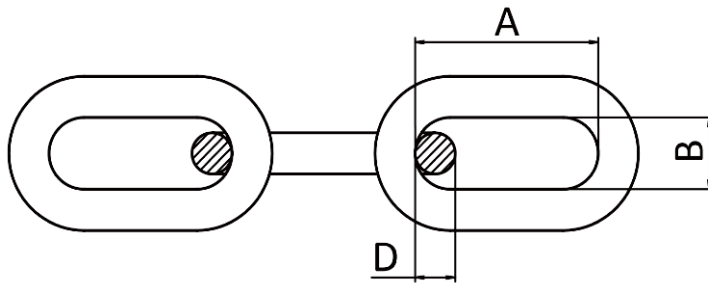
SIZE(D)		DIAMETER		WORKING LOAD		PROOF LOAD		BREAKING LOAD		INNER LENGTH (A)		INNER WIDTH (B)	
MM	NO.	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
3.0	4	3.0	0.120	93	205	1.82	410	3.64	820	28.1	1.11	5.32	0.21
3.4	3	3.4	0.135	116	255	2.27	510	4.53	1020	29.6	1.17	6.09	0.24
3.8	2	3.8	0.148	141	310	2.76	620	5.51	1240	29.9	1.18	6.59	0.26
4.1	1	4.1	0.162	168	370	3.29	740	6.58	1480	31.7	1.25	7.10	0.28
4.5	1/0	4.5	0.177	200	440	3.91	880	7.82	1760	31.7	1.25	7.86	0.31
4.9	2/0	4.9	0.192	236	520	4.63	1040	9.24	2080	31.9	1.26	8.62	0.34
5.3	3/0	5.3	0.207	274	605	5.38	1210	10.76	2420	32.9	1.30	9.13	0.36
5.5	4/0	5.5	0.218	304	670	5.96	1340	11.91	2680	35.2	1.39	9.64	0.38
6.4	5/0	6.4	0.250	399	880	7.83	1760	15.64	3520	38.5	1.52	11.2	0.44

US TYPE NACM2010 COIL TWIST LINK CHAIN



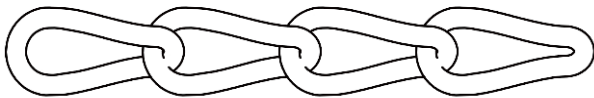
SIZE		DIAMETER		WORKING LOAD LIMIT		BREAKING LOAD		INNER LENGTH		INNER WIDTH	
MM	NO.	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN
3.0	4	3.0	0.12	88	195	3.47	780	27.6	1.09	4.56	0.18
3.4	3	3.4	0.135	109	240	4.31	970	28.9	1.14	5.32	0.21
3.8	2	3.8	0.148	134	295	5.25	1180	29.1	1.15	5.58	0.22
4.1	1	4.1	0.162	159	350	6.24	1405	30.9	1.22	6.34	0.25
4.5	1/0	4.5	0.177	188	415	7.43	1670	30.9	1.22	6.85	0.27
4.9	2/0	4.9	0.192	225	495	8.78	1975	31.4	1.24	7.36	0.29
5.3	3/0	5.3	0.207	261	575	10.23	2300	31.9	1.26	8.12	0.32
5.5	4/0	5.5	0.218	288	635	11.32	2545	34.0	1.34	8.32	0.33
6.4	5/0	6.4	0.25	379	835	14.86	3345	37.3	1.47	9.65	0.38

US TYPE NACM 2010 MACHINE STRAIGHT LINK CHAIN



SIZE(D)		DIAMETER		WORKING LOAD		PROOF LOAD		BREAKING LOAD		INNER LENGTH (A)		INNER WIDTH (B)	
MM	NO.	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
3.0	4	3.0	0.120	98	215	1.91	430	3.82	860	14.0	0.55	5.3	0.21
3.4	3	3.4	0.135	122	270	2.40	540	4.80	1080	15.0	0.59	6.1	0.24
3.8	2	3.8	0.148	147	325	2.89	650	5.78	1300	15.5	0.61	6.6	0.26
4.1	1	4.1	0.162	177	390	3.47	780	6.93	1560	16.0	0.63	7.1	0.28
4.5	1/0	4.5	0.177	211	465	4.14	930	8.27	1860	18.8	0.74	7.9	0.31
4.9	2/0	4.9	0.192	247	545	4.85	1090	9.69	2180	19.8	0.78	8.6	0.34
5.3	3/0	5.3	0.207	288	635	5.65	1270	11.29	2540	21.6	0.85	9.1	0.36
5.5	4/0	5.5	0.218	318	700	6.23	1400	12.44	2800	25.1	0.99	9.6	0.38
6.4	5/0	6.4	0.250	420	925	8.23	1850	16.44	3700	27.2	1.07	11.2	0.44

US TYPE NACM2010 MACHINE TWIST LINK CHAIN

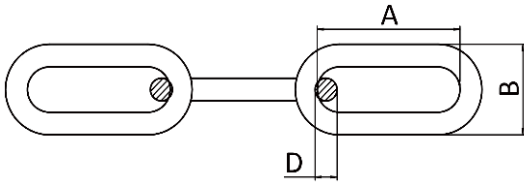


SIZE		DIAMETER		WORKING LOAD		BREAKING LOAD		INNER LENGTH		INNER WIDTH	
MM	NO.	MM	IN	KG	LBS	KN	LBS	MM	IN	MM	IN
3.0	4.0	3.0	0.120	93	205	3.64	820	13.1	0.52	4.3	0.17
3.4	3.0	3.4	0.135	116	255	4.53	1020	14.2	0.56	5.1	0.20
3.8	2.0	3.8	0.148	141	310	5.51	1240	14.7	0.58	5.3	0.21
4.1	1.0	4.1	0.162	168	370	6.58	1480	15.0	0.59	6.1	0.24
4.5	1/0	4.5	0.177	200	440	7.82	1760	17.2	0.68	6.6	0.26
4.9	2/0	4.9	0.192	236	520	9.24	2080	18.5	0.73	7.1	0.28
5.3	3/0	5.3	0.207	274	605	10.76	2420	20.3	0.8	7.9	0.31
5.5	4/0	5.5	0.218	304	670	11.91	2680	22.5	0.89	8.1	0.32
6.4	5/0	6.4	0.250	400	880	15.64	3520	25.3	1.00	9.4	0.37

DIN STANDARD LINK CHAINS

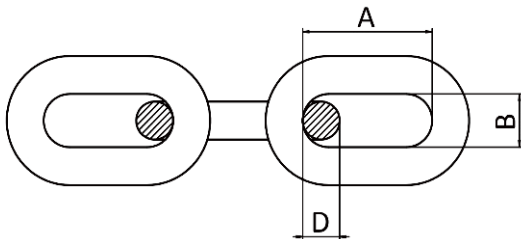


DIN 763 LINK CHAIN



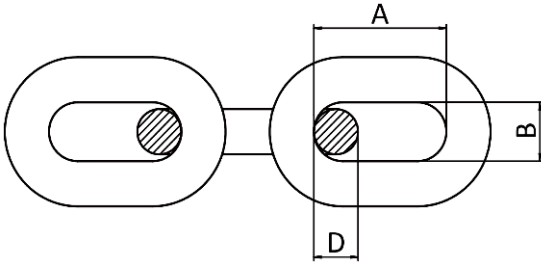
SIZE(D)		INSIDE LENGTH (A)		OUTSIDE WIDTH (B)		WORKING LOAD	TEST LOAD	BREAKING LOAD	WEIGHT PER M
MM	+ -MM	MM	+ -MM	MM	+ -MM	KG	N	N	KG
3	0.5	26	1.2	12	0.6	55	1050	3200	0.15
4		32	1.5	16	0.8	100	2000	6000	0.27
5		35	1.8	20	1.0	160	3150	10000	0.43
6		42	2.0	24	1.2	224	4500	14000	0.63
7		49	2.5	28	1.4	300	6000	18000	0.86
8		52	2.5	32	1.6	400	8000	25000	1.10
9		59	3.0	36	1.8	530	10500	32000	1.41
10	1	65	3.2	40	2.0	630	12500	40000	1.75
11		72	3.4	44	2.0	790	15800	47500	2.11
12		78	3.6	48	2.3	940	18800	56500	2.55
13		82	4.0	52	2.5	1000	21200	63000	2.95
16		100	5.0	64	3.2	1600	33000	100000	4.45
18		113	5.2	70	3.2	2120	42300	127000	5.65
19		119	5.6	72	3.4	2370	47300	142000	6.25
20		120	6.0	75	3.8	2500	50000	160000	7.00
22		127	6.0	82	4.0	3170	63300	190000	8.55
25		140	6.6	88	4.2	4090	81700	245000	10.90
28		152	7.0	96	4.7	6000	120000	300000	13.90
32		171	7.8	108	5.2	8000	160000	400000	18.20

DIN 764 LINK CHAIN



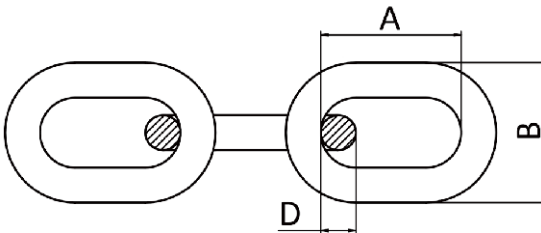
SIZE(D)		INSIDE LENGTH (A)		INSIDE WIDTH (B)	OUTSIDE WIDTH	LENGTH PER 11 LINKS		WEIGHT PER 100M	BREAKING LOAD	TEST LOAD
MM	+ -MM	MM	+ -MM	MM	MM	MM	+ -MM	KG	KN	KG
4	0.20	16	0.30 0.20	5	14.0	176	1.60 0.90	31.3	7.0	400
5	0.20	18	0.40 0.20	7	18.2	198	1.80 1.00	51.4	11.8	680
6	0.20	21	0.50 0.20	8	21.5	231	2.00 1.10	74.0	16.5	850
8	0.20	28	0.50 0.30	11	29.0	308	2.20 1.20	131.5	32.0	1680
10	0.30	35	0.60 0.30	14	36.0	385	2.70 1.50	200.0	50.0	2630
13	0.40	45	0.70 0.40	18	47.0	495	3.50 2.00	350.0	80.0	4200
16	0.50	56	0.90 0.50	22	58.0	616	4.30 2.50	520.0	125.0	6700
18	0.80	63	1.00 0.50	24	65.0	693	4.70 2.80	650.0	160.0	8400
20	1.00	70	1.10 0.60	27	72.0	770	5.40 3.20	820.0	200.0	10000
23	1.20	80	1.30 0.70	31	83.0	880	6.20 3.50	1100.0	250.0	13000
26	1.30	91	1.50 0.80	35	94.0	1001	7.00 4.00	1400.0	320.0	16000

DIN 766 LINK CHAIN



SIZE (D)		INSIDE LENGTH (A)			INSIDE WIDTH (B)	OUTSIDE WIDTH	LENGTH PER 11 LINKS			WEIGHT PER M
MM	+MM	MM	+MM	-MM	MM	MM	MM	+MM	-MM	KG
2	0.2	12.0	0.2	0.20	3.5	7.5	132	1.0	0.5	0.07
3	0.2	16.0	0.2	0.20	4.2	11.0	176	1.4	0.7	0.16
4	0.2	16.0	0.3	0.20	5.0	13.7	176	2.1	1.1	0.32
5	0.2	18.5	0.4	0.20	6.0	17.0	203.5	2.4	1.2	0.50
6	0.2	18.5	0.4	0.20	7.2	20.2	203.5	2.4	1.2	0.80
7	0.3	22.0	0.4	0.20	8.4	23.8	242	3.0	1.4	1.10
8	0.3	24.0	0.4	0.20	9.6	27.2	264	3.2	1.5	1.40
9	0.4	27.0	0.5	0.30	10.8	30.6	297	3.6	1.8	1.80
10	0.4	28.0	0.5	0.30	12.0	34.0	308	3.7	1.9	2.20
11	0.4	31.0	0.5	0.30	13.2	37.4	341	4.0	2.0	2.70
12	0.3	36.0	0.6	0.30	14.4	40.8	396	4.4	2.2	3.10
13	0.5	36.0	0.6	0.30	15.6	44.2	396	4.6	2.4	3.80
14	0.6	41.0	0.7	0.40	16.8	47.6	451	5.4	2.7	4.40
16	0.6	45.0	0.8	0.40	19.2	54.4	495	6.0	3.0	5.70
18	0.9	50.0	0.8	0.40	21.6	61.2	550	6.6	3.3	7.30
19	0.4	53.0	0.9	0.40	22.8	64.6	583	7.0	3.7	7.97
20	1.0	56.0	1.0	0.50	24.0	68.0	616	7.4	3.7	9.00
23	1.2	64.0	1.1	0.50	27.6	78.2	704	8.4	4.2	12.00
26	1.3	73.0	1.2	0.60	31.2	88.4	803	9.6	4.8	15.00
28	1.4	78.0	1.3	0.65	33.8	95.2	858	10.2	5.1	18.00
30	1.5	84.0	1.4	0.70	41.0	102.0	924	11.0	5.5	19.50
32	1.6	90.0	1.5	0.75	43.0	108.8	990	11.8	5.9	23.00

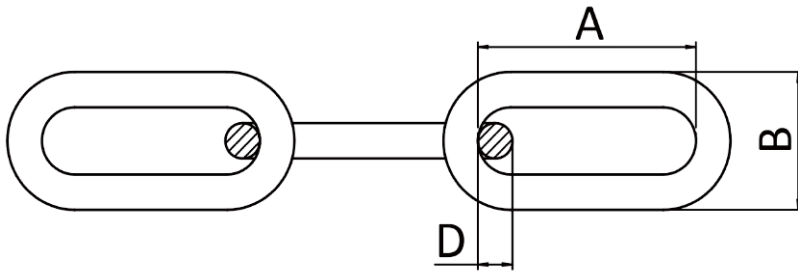
DIN 5685 A/C SHORT/LONG LINK CHAIN



SIZE (D)	INSIDE LENGTH (A)	OUTSIDE WIDTH (B)	WEIGHT PER 100M	WORKING LOAD	BREAKING LOAD	GRADE
MM	MM	MM	KG	N	N	
2.0	12	8	7	500	1250	A
	22		6			C
2.5	14	10	11	750	2000	A
	24		10			C
3.0	16	12	16.5	1120	2800	A
	26		15			C
4.0	19	16	30	2000	5000	A
	32		27			C
5.0	21	20	50	3150	7750	A
	35		43			C
6.0	24	24	73	4500	11500	A
	42		63			C
7.0	28	28	100	6000	15000	A
	49		86			C
8.0	32	32	130	8000	20000	A
	52		110			C
9.0	36	36	165	10000	25000	A
	59		141			C
10.0	40	40	205	12500	31000	A
	65		175			C
11.0	44	44	250	15000	38000	A
	72		211			C
12.0	48	48	290	18000	45000	A
	78		255			C
13.0	52	52	345	21200	53000	A
	82		295			C

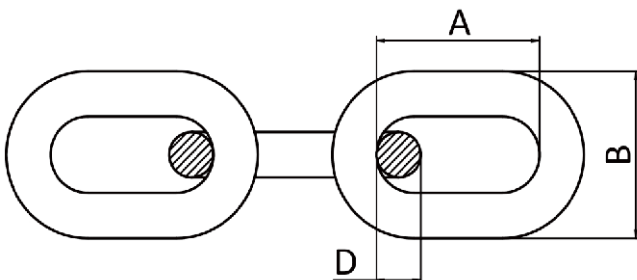


UK TYPE LONG LINK CHAIN



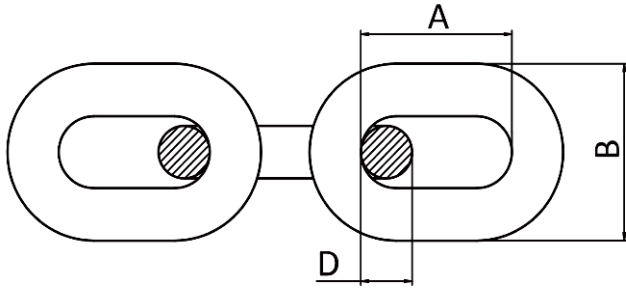
LINK SPECIFICATION				TEST LOAD	BREAKING LOAD	NET WT PER 200FT(KG)	
D		A	B				
IN	MM	MM	MM	KG	KG	B.F.	H.D.G.
1/8	3.20	23	12.0	200	400	10.40	10.70
5/32	4.00	27	15.0	300	600	16.60	17.50
3/16	4.70	31	17.0	400	800	22.40	23.30
7/32	5.50	32	19.0	550	1100	32.00	33.00
1/4	6.35	33	21.0	750	1500	43.50	44.80
5/16	7.94	48	31.0	1200	2400	68.00	70.00
3/8	9.50	60	37.0	1700	3400	96.00	99.00
7/16	11.11	71	41.0	2300	4600	126.00	129.00
1/2	12.70	85	48.5	3000	6000	167.00	172.00
5/8	15.80	114	61.5	4700	9400	256.00	264.00
3/4	19.00	125	75.0	6800	13600	381.00	392.00
7/8	22.20	140	88.0	9250	18500	527.00	543.00
1	25.40	155	100.0	12150	24300	696.00	716.00

UK TYPE MEDIUM LINK CHAIN



LINK SPECIFICATION				TEST LOAD	BREAKING LOAD	NET WT PER 200FT(KG)	
D		A	B				
IN	MM	MM	MM	KG	KG	B.F.	H.D.G.
1/8	3.20	20	12.0	200	400	10.40	11.00
5/32	4.00	23	15.0	300	600	17.40	18.00
3/16	4.70	25	18.0	400	800	24.40	25.00
7/32	5.50	26	19.0	550	1100	34.00	35.00
1/4	6.35	26	23.0	750	1500	48.80	50.00
5/16	7.94	32	29.0	1200	2400	76.00	78.00
3/8	9.50	35	35.0	1700	3400	111.00	114.00
7/16	11.11	38	38.0	2300	4600	154.00	158.00
1/2	12.70	50	45.5	3000	6000	194.00	200.00
5/8	15.80	60	56.7	4700	9400	303.00	312.00
3/4	19.00	76	69.0	6800	13600	432.00	445.00
7/8	22.20	90	80.0	9250	18500	586.00	603.00
1	25.40	105	95.0	12150	24300	770.00	792.00

UK TYPE SHORT LINK CHAIN

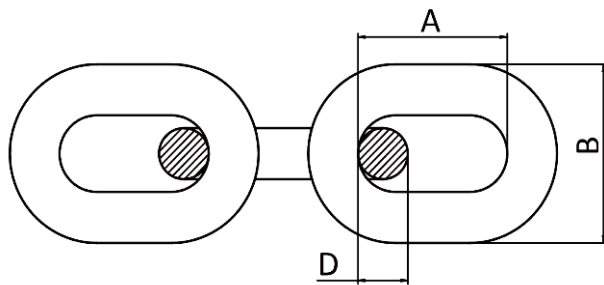


LINK SPECIFICATION				TEST LOAD	BREAKING LOAD	NET WT PER 200FT(KG)	
D	A	B					
IN	MM	MM	MM	KG	KG	B.F.	H.D.G.
1/8	3.20	16.0	12.0	200	400	11.40	11.74
5/32	4.00	18.5	14.5	300	600	18.60	19.00
3/16	4.70	19.0	17.0	400	800	26.20	27.00
7/32	5.50	20.0	19.0	550	1100	36.80	38.00
1/4	6.35	22.0	21.0	750	1500	50.00	51.50
5/16	7.94	26.0	26.0	1200	2400	80.00	82.40
3/8	9.50	28.0	32.0	1700	3400	122.00	125.70
7/16	11.11	33.0	36.0	2300	4600	164.00	169.00
1/2	12.70	39.0	43.0	3000	6000	210.00	216.00
5/8	15.80	45.0	53.0	4700	9400	334.00	344.00
3/4	19.00	55.0	63.0	6800	13600	485.00	499.00
7/8	22.20	64.0	74.0	9250	18500	656.00	675.00
1	25.40	73.0	84.0	12150	24300	870.00	896.00

AUSTRALIAN STANDARD LINK CHAINS

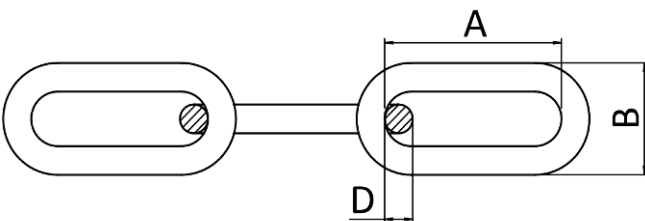


AUSTRALIAN STANDARD GRADE 70 CHAIN



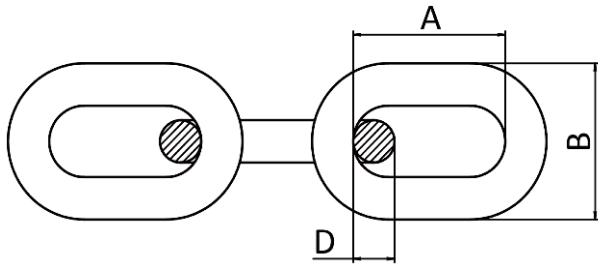
CHAIN SIZE	LINK DIMENSION			WEIGHT PER M	LENGTH PER 500KG	BREAKING STRENGTH
	D	A	B			
MM	MM	MM	MM	KG	KG	KN
6	6.3	18.9	22.05	0.88	568	44.1
7	7.1	21.3	24.85	1.12	446	55.9
7.3	7.3	24.0	26.6	1.16	430	58.9
8	8.0	24.0	28.0	1.43	350	73.6
10	10.0	30.0	35.0	2.23	224	118.0
13	13.0	39.0	45.5	3.75	133	176

AUSTRALIAN STANDARD LONG LINK CHAIN



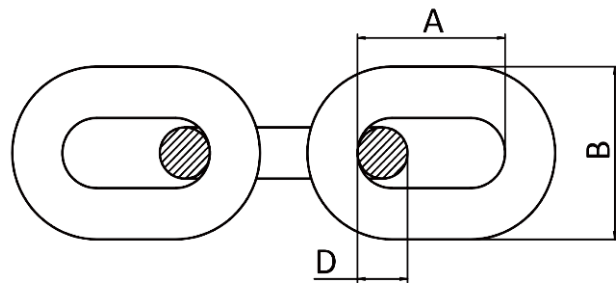
CHAIN SIZE	W.L.L	LINK DIMENSION			LENGTH PER 100KG	
		D	A	B	B.F.	H.D.G.
MM	MT	MM	MM	MM	M	M
5	0.190	5.00	29.3	21.8	217.0	206.0
6	0.320	6.30	34.5	26.1	135.0	128.0
8	0.530	8.00	41.2	31.9	82.2	78.1
10	0.830	10.00	49.0	38.7	52.9	50.2

AUSTRALIAN STANDARD MEDIUM LINK CHAIN



CHAIN SIZE	W.L.L	LINK DIMENSION			LENGTH PER 100KG	
		D	A	B	B.F.	H.D.G.
MM	MT	MM	MM	MM	M	M
3	0.06	3.15	15.7	13.1	511.0	498.0
4	0.11	4.00	18.6	16.0	320.0	305.0
5	0.19	5.00	22.0	19.4	203.0	193.0
6	0.32	6.30	26.1	23.5	129.0	120.0
8	0.53	8.00	32.2	29.5	77.8	74.1
10	0.83	10.0	39.1	36.2	48.5	47.1
12	1.35	12.0	46.0	44.0	34.0	33.3
13	1.50	13.0	49.1	46.1	29.7	27.7
16	2.31	16.0	59.6	56.5	20.2	18.2
20	3.67	20.0	73.3	70.0	12.3	11.6
24	5.31	24.0	87.0	83.6	8.5	8.04

AUSTRALIAN STANDARD SHORT LINK CHAIN

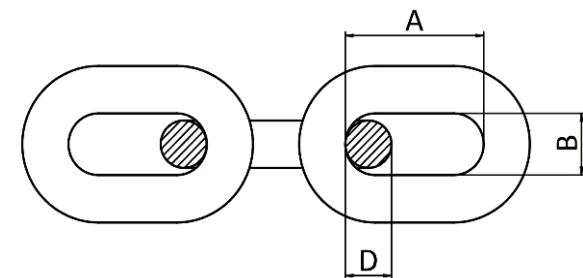


CHAIN SIZE	W.L.L	LINK DIMENSION			LENGTH PER 100KG	
		D	A	B	B.F.	H.D.G.
MM	MT	MM	MM	MM	M	M
6	0.32	6.3	18.9	21.5	114.0	108
8	0.53	8.0	24.0	27.5	70.5	67.0
10	0.83	10.0	29.5	33.5	45.2	42.9
12	1.50	12.5	37.5	40.6	29.5	28.0
16	2.31	16.0	47.0	54.0	17.6	16.7

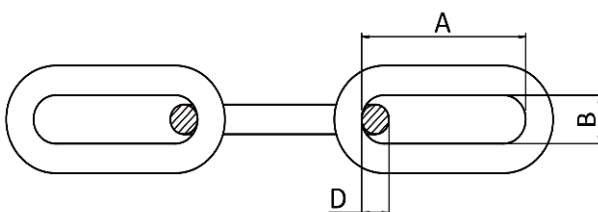
KOREAN STANDARD LINK CHAINS

KOREAN STANDARD LINK CHAIN

SHORT LINK



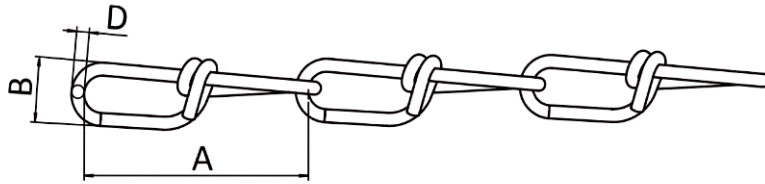
LONG LINK



NOMINAL SIZE(D)		MATERIAL SIZE	INSIDE LENGTH(A)	INSIDE WIDTH(B)	LENGTH PER PC	WEIGHT PER PC
MM		MM	MM	MM	M	KG
SHORT LINK	3	3.0	23.0	5.3	30	4.50
	4	4.0	22.0	7.5	30	9.00
	5	4.8	23.7	8.3	30	12.74
	6	5.8	27.3	10.0	30	18.86
	7	7.0	31.0	12.0	15	14.14
	8	7.8	35.0	13.7	15	17.23
	9	8.8	39.0	15.2	15	22.13
	12	12.0	38.0	18.0	15	45.00
	15	15.0	45.0	23.0	15	75.45
	16	16.0	53.0	23.0	15	76.41
LONG LINK	19	19.0	58.0	25.0	10	78.28
	4	3.9	34.3	6.2	30	7.26
	4.5	4.5	44.4	9.2	30	9.46
	5	4.8	45.0	11.0	30	11.31
	6	6.0	47.0	12.0	30	18.00
	7	6.8	50.0	11.4	15	11.19
	12	12.0	50.0	18.0	15	42.00
	15	14.8	64.0	23.0	15	61.44
19	19.0	75.0	25.0	10	71.00	

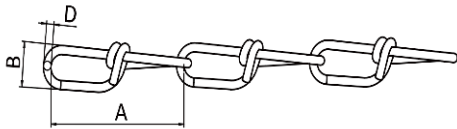
WELDLESS CHAINS

DIN5686 DOUBLE LOOP CHAIN



NO.	DIAMETER(D)	INSIDE LENGTH(A)	OUTSIDE WIDTH(B)	BREAKING LOAD	WEIGHT PER 100M
	MM	MM	MM	KG	KG
14	1.4	20.0	6.5	16	4.2
16	1.6	23.0	7.0	22	6.0
20	1.8	26.5	8.0	30	7.3
22	2.0	28.0	9.0	40	9.0
25	2.2	31.0	10.0	50	11.0
27	2.5	35.0	11.0	70	14.0
30	2.8	39.0	12.5	90	17.0
32	3.1	41.0	14.0	120	21.0
35	3.4	44.0	15.5	140	26.0
40	3.8	46.0	17.0	160	34.0
45	4.2	52.0	19.0	170	41.0
50	4.6	58.0	20.5	180	50.0
55	5.0	60.0	22.5	190	57.0

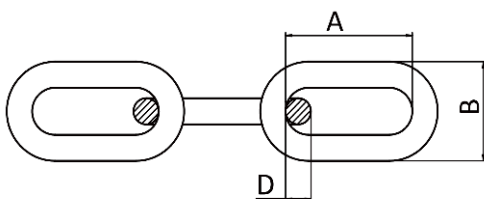
US TYPE NACM2010 DOUBLE LOOP CHAIN



ITEM NO	DIAMETER(D)	INSIDE LENGTH(A)	OUTSIDE WIDTH(B)	WEIGHT PER 100FT
	MM	MM	MM	KG
5	1.6	23.37	7.0	1.8
4	1.8	25.40	8.0	2.2
3	2.0	27.94	9.0	3.0
2	2.3	33.78	10.0	3.5
1	2.7	39.12	12.0	4.5
1L	2.7	51.56	12.0	4.2
1/0	3.0	45.21	14.0	5.7
1/0L	3.0	56.90	14.0	5.2
2/0	3.4	46.23	15.5	7.5
2/0L	3.4	56.90	15.5	7.0
3/0	3.8	55.12	17.0	9.4
4/0	4.1	55.63	19.0	11.0
6/0	4.9	73.78	21.0	15.7

PLASTIC CHAINS

PLASTIC CHAINS



SIZE D (MM)	INNER LENGTH A (MM)	OUTER WIDTH B (MM)	WEIGHT KG/M	SECTION
2	10	7	0.009	ROUND
3	13	11	0.020	ROUND
4	19	16	0.030	ROUND
6	25	22	0.065	ROUND
	27	20	0.060	FLAT
8	38	27	0.110	FLAT
	34	25	0.090	FLAT
10	50	38	0.200	ROUND
12	67	40	0.285	ROUND



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