



# WORKING LOAD LIMITS FOR SAFER LIFTING

## B-Alloy Grade 80 Chain Slings TO AS 3775

CHAIN DIA. mm	SINGLE LEG SLINGS			SLINGS OF 2, 3 OR 4 LEGS			ENDLESS SLINGS	
	STRAIGHT SLING	ADJUSTABLE SLING	REEVED SLING	60°	90°	120°	60° MAX	60° MAX
6	1.1	0.8	0.8	1.9	1.6	1.1	1.5	1.5
7	1.5	1.1	1.1	2.6	2.1	1.5	2.0	2.0
8	2.0	1.5	1.5	3.5	2.8	2.0	2.6	2.6
10	3.2	2.4	2.4	5.5	4.5	3.2	4.1	4.1
13	5.3	4.0	4.0	9.2	7.5	5.3	6.9	6.9
16	8.0	6.0	6.0	13.8	11.3	8.0	10.4	10.4
20	12.5	9.4	9.4	21.6	17.6	12.5	16.3	16.3
22	15.0	11.3	11.3	26.0	21.2	15.0	19.5	19.5
26	21.2	15.9	15.9	36.7	29.9	21.2	27.6	27.6
32	31.5	23.6	23.6	54.5	44.4	31.5	41.0	41.0

### BEAVER ALLOY GRADE 80 CHAIN SLINGS Care and Usage Instructions

**BEAVER ALLOY GRADE 80 CHAIN SLINGS SHOULD ONLY BE USED BY A COMPETENT PERSON**

Extreme care should be taken when using the Beaver Grade 80 Chain Slings in high temperature environments. It is therefore our instruction that the user must always err on the side of caution and make ample provisions for reduced Working Load Limits. The following are our instructions:

**TEMPERATURE CONDITIONS**  
 -10°C up to 200°C No reduction in WLL  
 200°C up to 300°C Reduce WLL by 10%  
 300°C up to 400°C Reduce WLL by 25%  
 Do not use above 400°C

**GALVANISING**  
 Beaver alloy chains and fittings should not be hot-dip galvanised or electro-plated, except by Beaver. Galvanised slings must always have the Working Load Limits reduced by 20%.

**ACIDIC CONDITIONS**  
 Beaver Alloy Grade 80 slings shall not be used in acidic solutions or in any other corrosive environment.

**DO NOT EXCEED WORKING LOAD LIMIT**  
 • DO NOT EXCEED 120°  
 • WLL at 60° must never be exceeded, even at smaller angles.  
 • WLL at other angles - apply the next greater angle and relevant load factor.

**The WLL of a sling must not exceed the lowest working load limit of the components in the system.**

## EV100 Grade 100 Chain Slings TO AS 3775

CHAIN DIA. mm	SINGLE LEG SLINGS			SLINGS OF 2, 3 OR 4 LEGS			ENDLESS SLINGS	
	STRAIGHT SLING	ADJUSTABLE SLING W/ DERATION	REEVED SLING	60°	90°	120°	60° MAX	60° MAX
6	1.4	1.1	0.8	2.4	2.0	1.4	1.8	1.8
8	2.5	1.9	1.4	4.3	3.5	2.5	3.3	3.3
10	4.0	3.0	2.3	6.9	5.6	4.0	5.2	5.2
13	6.7	5.0	3.8	11.6	9.4	6.7	8.7	8.7
16	10.0	7.5	5.6	17.3	14.1	10.0	13.0	13.0
20	16.0	12.0	7.0	27.7	22.6	16.0	20.8	20.8
22	19.0	14.3	10.7	32.9	26.5	19.0	24.7	24.7
26	26.5	19.9	14.9	45.8	37.4	26.5	34.5	34.5
32	40.0	30.0	22.5	69.2	56.4	40.0	52.0	52.0

### GRADE 100 & 120 CHAIN SLINGS SHOULD ONLY BE USED BY A COMPETENT PERSON.

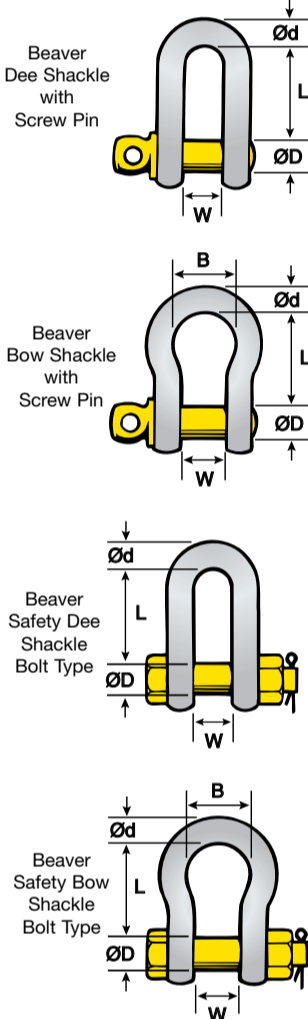
**SAFETY WARNING OF HAZARDOUS CONDITIONS:**

Extreme care should be taken when using the Beaver Grade 100 & 120 Chain and fittings in high temperature environments. It is therefore our instruction that the user must always err on the side of caution and NEVER EXCEED 200°C

**DO NOT EXCEED WORKING LOAD LIMIT**  
 • DO NOT EXCEED 120°  
 • WLL at other angles - apply the next greater angle and relevant load factor  
 • Some Shortening Hooks & Grab Hooks with cradle configuration, may not derate the WLL for the sling.

## Grade S Shackles WITH YELLOW PAINTED PIN TO AS 2741

WORKING LOAD LIMIT Metric Tonnes	DIA. Ød mm	DIA. PIN Ød mm	INSIDE WIDTH W mm	INSIDE LENGTH		WIDTH OF BOW B mm	APPROX. WEIGHT EACH	
				DEE TYPE L mm	BOW TYPE L mm		SCREW PIN kg	SAFETY PIN kg
0.33	5	6	10	—	22	15	0.02	—
0.50	6	8	12	22	29	20	0.06	0.07
0.75	8	10	13	26	31	21	0.11	0.13
1.00	10	11	17	32	37	26	0.15	0.17
1.50	11	13	18	37	43	29	0.21	0.25
2.00	13	16	21	41	48	33	0.37	0.44
3.20	16	19	27	51	61	43	0.65	0.79
4.70	19	22	32	60	72	51	1.06	1.26
6.50	22	25	37	71	84	58	1.56	1.88
8.50	25	29	43	81	95	68	2.32	2.78
9.50	29	32	46	90	108	74	3.28	3.87
12.00	32	35	52	100	119	83	4.51	5.26
13.50	35	38	57	113	133	92	5.43	6.94
17.00	38	41	60	124	146	98	7.89	8.79
25.00	44	51	73	146	178	127	13.40	14.99
35.00	51	57	83	171	197	146	18.85	20.65
45.00	57	63	95	181	222	160	26.06	29.01
55.00	63	70	105	203	267	184	37.86	41.05
85.00	76	83	127	229	330	200	58.68	62.24
120.00	89	95	146	267	381	241	—	110.00
150.00	102	108	165	318	432	279	—	160.00



OTHER SIZES UP TO 1000 TONNES AVAILABLE ON REQUEST

## Polyester Round Slings & Flat Webbing Slings

ROUND SLINGS Comply to AS 4497	FLAT SLINGS Comply to AS 1353	COLOUR CODE	WLL Tonnes	VERTICAL WLL Tonnes	CHOKE WLL Tonnes	BASKET WLL Tonnes	L = LOAD FACTOR				
							L=1.0	L=0.8	L=0.2	L=1.7	
MRS1000	FS-2-1000	Violet	1.0	1.0	0.8	2.0	1.73	1.41	1.0	1.73	1.38
MRS2000	FS-2-2000	Green	2.0	2.0	1.6	4.0	3.46	2.82	2.0	3.46	2.76
MRS3000	FS-2-3000	Yellow	3.0	3.0	2.4	6.0	5.19	4.23	3.0	5.19	4.14
MRS4000	FS-2-4000	Grey	4.0	4.0	3.2	8.0	6.92	5.63	4.0	6.92	5.52
MRS5000	FS-2-5000	Red	5.0	5.0	4.0	10.0	8.65	7.05	5.0	8.65	6.90
MRS6000	FS-2-6000	Brown	6.0	6.0	4.8	12.0	10.38	8.46	6.0	10.38	8.28
MRS8000	FS-2-8000	Blue	8.0	8.0	6.4	16.0	13.84	11.28	8.0	13.84	11.04
MRS10000	FS-2-10000	Orange	10.0	10.0	8.0	20.0	17.30	14.10	10.0	17.30	13.80

The information contained within the above tables is taken from the relevant Australian Standards and was correct at the time of publication.

## Grade 50 Stainless Steel Chain Slings TO AS 4797

CHAIN DIA. mm	SINGLE LEG SLINGS			SLINGS OF 2, 3 OR 4 LEGS			ENDLESS SLINGS	
	STRAIGHT SLING	REEVED SLING	BASKET SLING	60°	90°	120°	60°	90°
5	0.50	0.40	0.85	0.70	0.5	0.68	0.65	0.40
7	1.00	0.80	1.70	1.40	1.0	1.36	1.12	0.80
10	2.00	1.60	3.40	2.80	2.0	2.72	2.24	1.60
13	3.20	2.56	5.44	4.48	3.2	4.35	3.58	2.56
16	5.00*	4.00	8.50*	7.00*	5.0*	6.80	5.60	4.00

\*10% Reduction with HSK16

**Grade 50 chain slings should only be used by a competent person.**  
 Maximum Working Load Limit in tonnes of 1000kg, under general conditions of use.

• Do not exceed Working Load Limit  
 • Do not exceed 120°  
 • WLL at other angles - apply the next greater angle and relevant load factor  
 • Never exceed 200°C

## Wire Rope Slings TO AS 1666

WIRE ROPE DIA. mm	DIRECT LOAD	ROUND LOAD	RECTANGULAR LOAD	CHOKE HITCH				DIRECT LOAD				BASKET HITCH				
				ROUND LOAD		OTHER THAN ROUND LOAD		ROUND LOAD		OTHER THAN ROUND LOAD		ROUND LOAD		OTHER THAN ROUND LOAD		
				SINGLE WRAP	DOUBLE WRAP	SINGLE WRAP	DOUBLE WRAP	0°	60°	90°	120°	0°	60°	90°	120°	
8	0.78	0.58	0.39	1.35	1.1	0.78	1.01	0.68	1.56	1.35	1.1	0.78	0.78	0.68	0.55	0.39
9	0.99	0.74	0.49	1.71	1.4	0.99	1.29	0.86	1.98	1.71	1.4	0.99	0.99	0.86	0.7	0.49
10	1.22	0.92	0.61	2.1	1.72	1.22	1.59	1.06	2.4	2.1	1.72	1.22	1.22	1.06	0.87	0.61
11	1.48	1.11	0.74	2.6	2.1	1.48	1.92	1.29	3	2.6	2.1	1.48	1.48	1.29	1.05	0.74
12	1.76	1.32	0.88	3	2.5	1.76	2.3	1.53	3.5	3	2.5	1.76	1.76	1.53	1.25	0.88
13	2.1	1.55	1.04	3.6	2.9	2.1	2.7	1.8	4.1	3.6	2.9	2.1	2.1	1.8	1.47	1.04
14	2.4	1.8	1.2	4.2	3.4	2.4	3.1	2.1	4.8	4.2	3.4	2.4	2.4	2.1	1.71	1.2
16	3.1	2.3	1.56	5.4	4.4	3.1	4.1	2.7	6.2	5.4	4.4	3.1	3.1	2.7	2.2	1.56
18	4	3	1.98	6.8	5.6	4	5.1	3.4	7.9	6.8	5.6	4	4	3.4	2.8	1.98
20	4.9	3.7	2.4	8.4	6.9	4.9	6.3	4.2	9.8	8.4	6.9	4.9	4.9	4.2	3.5	2.4
22	5.9	4.4	3	10.2	8.3	5.9	7.7	5.1	11.8	10.2	8.3	5.9	5.9	5.1	4.2	3
24	7	5.3	3.5	12.2	9.9	7	9.1	6.1	14.1	12.2	9.9	7	7	6.1	5	3.5
26	8.3	6.2	4.1	14.3	11.6	8.3	10.7	7.2	16.5	14.3	11.6	8.3	8.3	7.2	5.9	4.1
28	9.6	7.2	4.8	16.6	13.5	9.6	12.4	8.3	19.1	16.6	13.5	9.6	9.6	8.3	6.8	4.8
32	12.5	9.4	6.3	22	17.6	12.5	16.3	10.9	25	22	17.6	12.5	12.5	10.9	8.9	6.3
36	15.8	11.9	7.9	27	22	15.8	21	13.8	32	27	22	15.8	15.8	13.8	11.2	7.9
40	19.6	14.7	9.8	34	28	19.6	25	17	39	34	28	19.6	19.6	17	13.9	9.8
44	24	17.7	11.8	41	33	24	31	21	47	41	33	24	24	21	16.8	11.8
48	28	21	14	49	40	28	37	24	56	49	40	28	28	24	19.9	14
52	33	25	16.6	57	47	33	43	29	66	57	47	33	33	29	24	16.6
56	38	29	19.2	66	54	38	50	33	77	66	54	38	38	33	27	19.2
60	44	33	22	76	62	44	57	38	88	76	62	44	44	38	31	22

The above listed working loads represent ferrule-secured eyes.

## Beaver Quality Lifting Products

