

## BEAVER SHACKLES PRODUCT INFORMATION

### Shackle Information

Shackles are used in lifting and static systems as removable links to connect (steel) wire rope, chain and other fittings.

Screw pin shackles are used mainly for non-permanent applications.

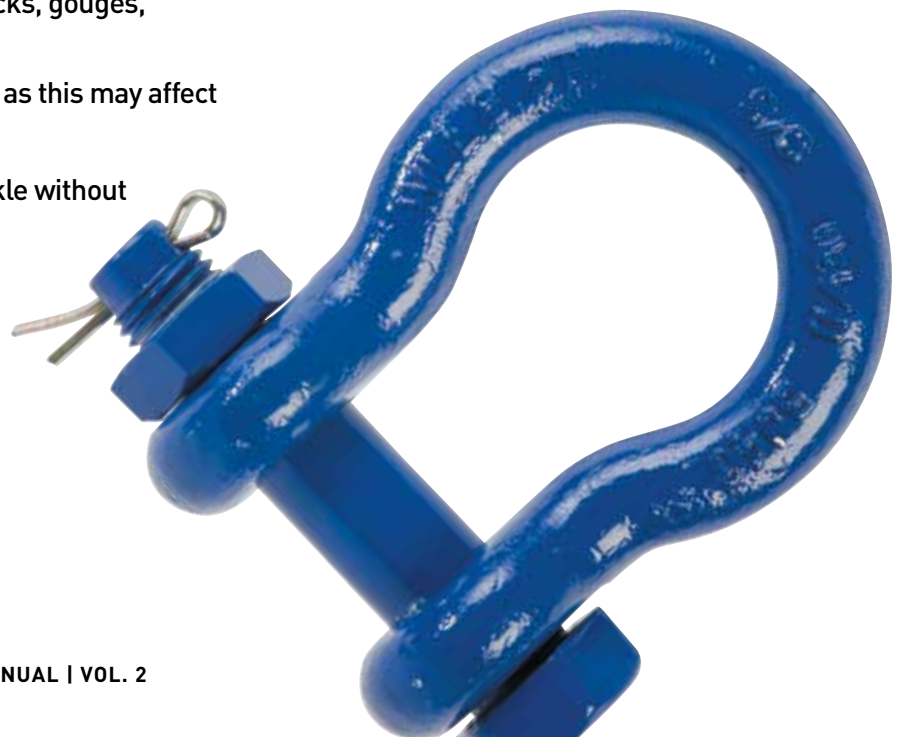
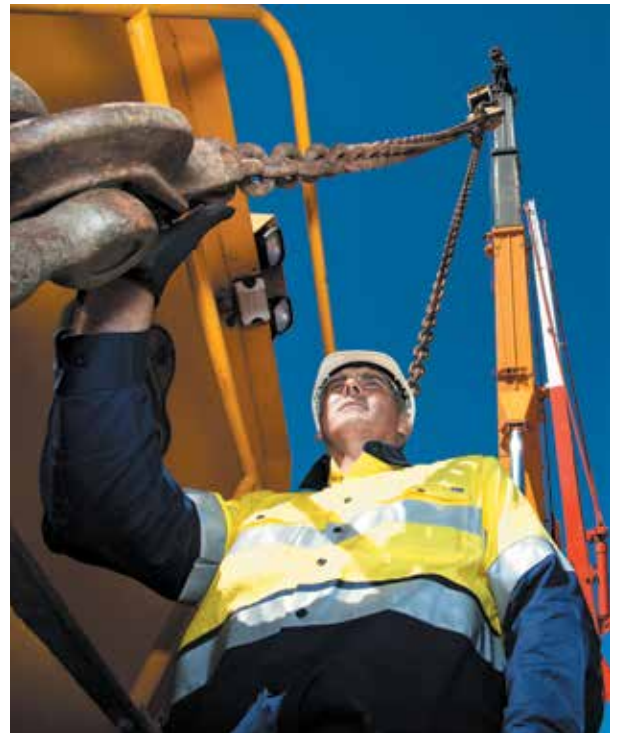
Safety pin shackles are used for long-term or permanent applications or where the load may slide on the pin causing rotation of the pin.

Dee shackles are mainly used on one-leg systems whereas anchor or bow shackles are mainly used on multi-leg systems.

Shackles should be inspected before use to ensure that:

- ▶ All markings are legible
- ▶ The threads of the pin and the body are undamaged
- ▶ The body and the pin are not distorted or unduly worn
- ▶ The body and pin are free from nicks, gouges, cracks and corrosion
- ▶ Shackles may not be heat treated as this may affect their Working Load Limit
- ▶ Never use a safety bolt type shackle without using the split cotter pin

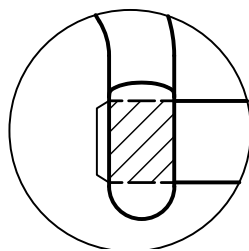
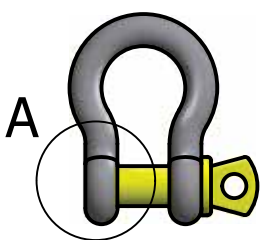
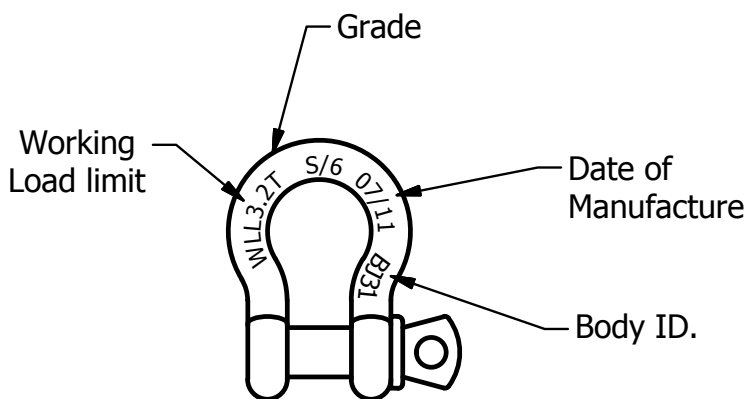
Never modify, repair or reshape a shackle by welding, heating or bending as this will affect the Working Load Limit (W.L.L).



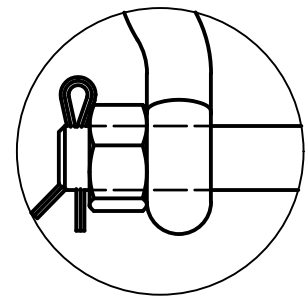
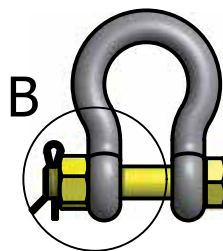
## Beaver Grade 'S' Shackles

Beaver Grade S Shackles are a rated shackle that meet the requirement of AS 2741. Grade 'S' shackles are recommended where high strength is required such as lifting, towing and 4WD applications.

- Available in both Dee and Bow configurations
- Available in both Screw pin and Safety Pin type – see detail A and B for more information
- Because the pin holds more load than the body, the pin diameter is larger than the body diameter
- For the same W.L.L., they are smaller than Grade 'M'
- Beaver's Grade 'S' shackles come in two colour configurations:
  - Beaver Standard Grade 'S': Yellow pin
  - Beaver Colour Coded Grade 'S': Body and pin colour coded for easy match to components
- The Body ID and date of Manufacture = the Batch ID



Detail A  
Screw Pin



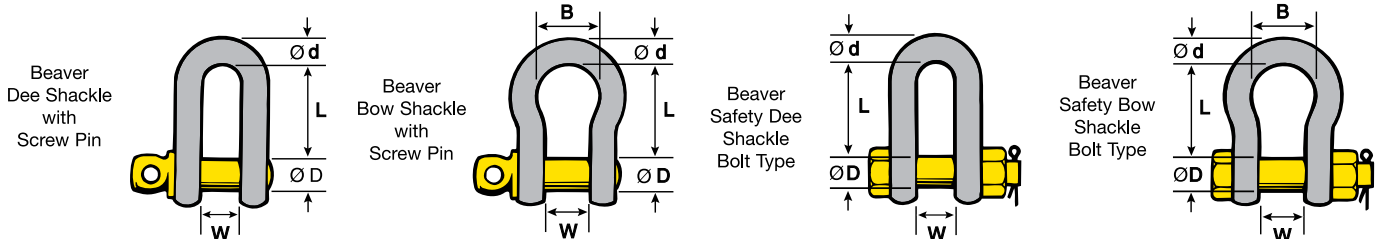
Detail B  
Safety Pin

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### Beaver Alloy Grade 'S' or '6' Shackles - Reference Guide

With yellow painted pin to AS 2741

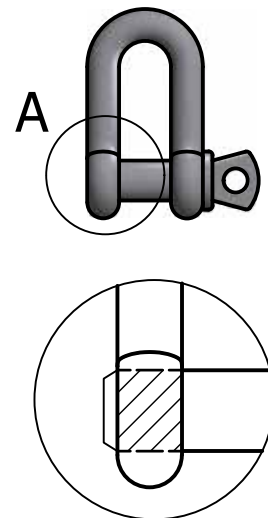
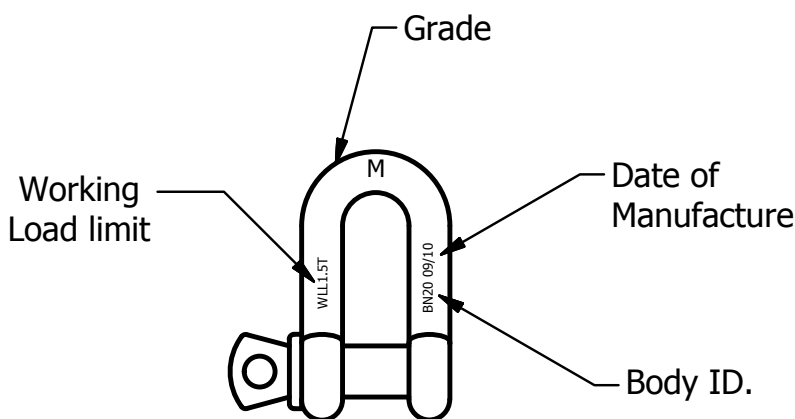
W.L.L Tonne	DIA d mm	DIA PIN D mm	Inside Width W mm	Inside Length		Width of Bow B mm	Approx Weight Each	
				Dee Type L mm	Bow Type L mm		Screw Pin Kg	Safety Pin Kg
0.33	5	6	10	—	22	15	0.02	—
0.5	6	8	12	22	29	20	0.06	0.07
0.75	8	10	13	26	31	21	0.11	0.13
1	10	11	17	32	37	26	0.15	0.17
1.5	11	13	18	37	43	29	0.21	0.25
2	13	16	21	41	48	33	0.37	0.44
3.2	16	19	27	51	61	43	0.65	0.79
4.7	19	22	32	60	72	51	1.06	1.26
6.5	22	25	37	71	84	58	1.56	1.88
8.5	25	29	43	81	95	68	2.32	2.78
9.5	29	32	46	90	108	74	3.28	3.87
12	32	35	52	100	119	83	4.51	5.26
13.5	35	38	57	113	133	92	5.43	6.94
17	38	41	60	124	146	98	7.89	8.79
25	44	51	73	146	178	127	13.40	14.99
35	51	57	83	171	197	146	18.85	20.65
45	57	63	95	181	222	160	26.06	29.01
55	63	70	105	203	267	184	37.86	41.05
85	76	83	127	229	330	200	58.68	62.24
120	89	95	146	267	381	241	—	110.00
150	102	108	165	318	432	279	—	160.00



## Beaver Grade 'M' Shackles

Beaver Grade 'M' Shackles are a rated shackle that comply with the requirements of AS 2741. Grade 'M' shackles are commonly used in marine applications.

- Only available in Dee configuration
- Screw pin type only – please see drawing A for more information
- Because the pin holds more load than the body, the pin diameter is larger than the body diameter
- The Body ID and date of Manufacture = the Batch ID



Detail A  
Screw Pin

## Beaver Commercial Shackles

Beaver Commercial Grade Shackles are for general purpose use only and are available in both hot dipped galvanised and electro galvanised finishes. They are not produced to any standard.

- Commercial Galvanised Shackles are available in both Dee and Bow type configuration
- Commercial Electro Galvanised Shackles are available in Dee type configuration only
- Screw pin type only
- Unlike other types of shackles, commercial shackles have the same diameter pin as the body
- Not suitable for lifting or towing

