



SECTION FIVE

Load rated Grade 316 stainless steel Fittings



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Currently in stock are Load Rated forged shackles, quick links, eye bolts, & eye nuts.

Batch 'Proof Loading Certificates' are issued with all components containing relevant information regarding the production of the goods. All good are marked with W.L.L and Batch No: The W.L.L are based on the batch proof test load (at double W.L.L.) All proof loads are tested as point loads, not evenly distributed loads, this gives a truer result.

The ultimate break is well in advance of double the proof load. Due to the nature of stainless steel it is not always possible to give an accurate ultimate break load.

*Please note: At time of print, there is no recognised Australian Standard for Stainless Steel Load Rated components. All products based on standards of similar nature.

SAMPLE TEST CERTIFICATE

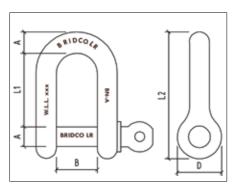




In our test this particular shackle

broke at 5.72 Tonne. You can see the shackle has become elongated and the pin has actually pulled out of the body. This is the nature of stainless steel in that it has high strength but low yield, hence the proof load is well below the actual average break load.



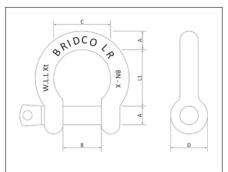


Offset Forged 316 Stainless Steel Safety Factor – 6:1 **AISI 316**

LOAD RATED DEE SHACKLE

CODE	A mm	B mm	D mm	L1 mm	WLL t
SS-360F-10LR	10.00	20.50	19.60	35.60	0.75
SS-360F-12LR	12.00	24.50	23.85	42.60	1.25
SS-360F-16LR	16.00	33.20	31.60	57.00	2.00





Offset Forged 316 Stainless Steel Safety Factor - 6:1 **AISI 316**

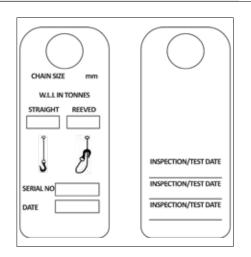
BRIDCO LOAD RATED BOW SHACKLES

Code	A mm	B mm	C mm	D mm	L1 mm	WLL t
SS-370F-10LR	10.00	20.50	30.50	19.60	37.30	0.75
SS-370F-12LR	12.00	23.50	35.00	23.75	46.80	1.25
SS-370F-16LR	16.00	32.00	49.50	31.80	60.70	2.00
SS-370F-19LR	19.00	38.00	55.00	38.10	75.00	2.50



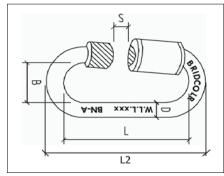
Blank Test Tags AISI 316

CODE	DESCRIPTION	Size
SS-IDTAG-SL-BLANK	Stainless steel I.D tag Single Leg	113 x 48 x 2mm
SS-IDTAG-ML-BLANK	Stainless steel I.D tag Multi Leg	113 x 48 x 2mm









Safety Factor – 4:1 **AISI 316**

BRIDCO LOAD RATED QUICK LINKS AISI 316

Code	B mm	D mm	L mm	L2 mm	S mm	WLL t
SS-7350-08LR	17.90	8.05	59.30	73.80	10.30	0.75
SS-7350-10LR	21.10	9.80	70.85	89.75	12.7	1.50





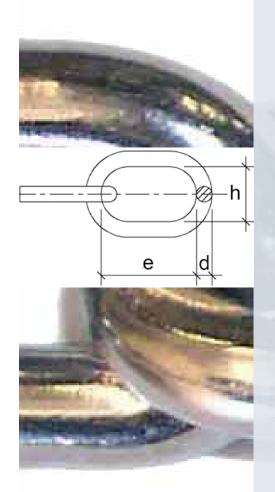
Offset Forged 316 Stainless Steel Electro Polished for superior corrosion resistance Safety Factor – 5:1 AISI 316

NOTE: Not recommended for overhead lifting. Please refer to the section 4 for cromox Grade 60 Hooks.

LOAD RATED SPRING HOOK

CODE	Size	Length	Gate Width	WLL (kg)	MBL (kg)
SS-2431X-08LR	8.0	80	16.0	290	1450
SS-2431X-10LR	10.00	100	22.0	570	2850
SS-2431X-12LR	12.00	120	28.0	720	3600





STAINLESS STEEL PROOF COIL CHAIN

Features:

Manufactured from AISI 316 Stainless Steel. Bridco PL chain is up 50% stronger than Bridco Commercial Stainless Steel Chain.

Chain has been subjected to a Proof Load half of the MBL

Sizes 1/4" to 1/2"

Chain stamped with batch number & test certificates are available for traceability & conformance purposes.

PROOF COIL CHAIN

Code	Proof Load (kN)	D (mm)	L (mm)	b (mm)	Drum Size
SS-CHPC-07	19.2	7	30.3	11.8	200M
SS-CHPC-08	25	8	31.9	13.9	200M
SS-CHPC-10	39.2	10	41.2	18.1	100M
SS-CHPC-13	66.3	13	50.1	20	50M

SHACKLES TO SUIT

Chain	Dee Shackle	Bow Shackle
SS-CHPC-07	SS-360F-10LR	SS-370F-10LR
SS-CHPC-08	SS-360F-10LR	SS-370F-10LR
SS-CHPC-10	SS-360F-12LR	SS-370F-12LR
SS-CPHC-13	SS-360F-16LR	SS-370F-16LR

Suggested applications:

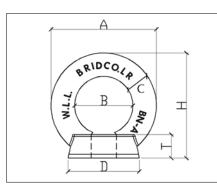
Shade Sails

Dragging chains

Other applications where commercial chain is not suitable.

Note: Chain not rated for overhead lifting applications and is not suitable for permanent immersion.





Drop Forged 316 Stainless Steel Safety Factor - 4:1 AISI 316

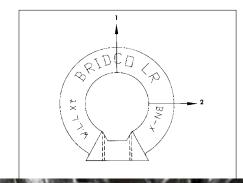
LOAD RATED EYE NUT

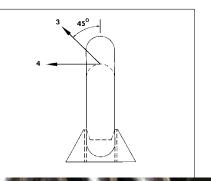
CODE	A mm	B mm	C mm	D mm	H mm	T mm	WORKING LOAD LIMIT DIRECT PULL
SS-582-12LR	53.70	30.00	12.00	29.10	55.70	12.00	1.25t
SS-582-16LR	62.90	35.20	15.00	34.20	64.90	13.80	2.00t
SS-582-20LR	71.60	40.00	15.75	39.50	75.00	15.15	2.75t

LOAD RATED DETAILS FOR SS-582 EYE NUT

CODE	1	2	3	4
CODE	W.L.L. (t)	W.L.L. (t)	W.L.L. (t)	W.L.L. (t)
SS-582-12LR	1.25	0.90	0.25	0.20
SS-582-16LR	2.00	1.00	0.35	0.25
SS-582-20LR	2.75	1.50	0.50	0.40

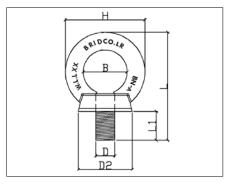
THE ABOVE WLL'S ARE WITH THE COLLAR SEATED ON A FLAT SURFACE AND WITH THREADS FULLY ENGAGED.









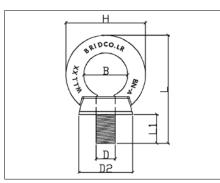


Drop Forged 316 Stainless Steel Safety Factor - 4:1 **AISI 316**

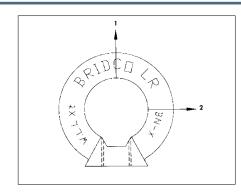
LOAD RATED EYE BOLTS

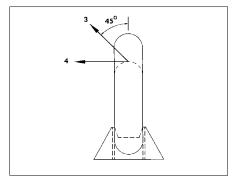
CODE	B mm	C mm	D mm	D2 mm	H mm	L mm	L1 mm	WORKING LOAD LIMIT DIRECT PULL
SS-580-12LR	30.00	12.00	M12	29.70	53.75	73.70	19.35	1.25t
SS-580-16LR	35.40	14.00	M16	34.50	62.70	89.50	26.00	2.00t





Drop Forged 316 Stainless Steel Safety Factor - 4:1 **AISI 316**





LOAD RATED DETAILS FOR SS-580 EYE BOLT

CODE	1	2	3	4
CODE	W.L.L. (t)	W.L.L. (t)	W.L.L. (t)	W.L.L. (t)
SS-580-12LR	1.25	0.90	0.25	0.20
SS-580-16LR	2.00	1.00	0.35	0.25
SS-580-12120LR	1.25	0.90	0.25	0.20
SS-580-16120LR	2.00	1.00	0.35	0.25
SS-580-20120LR	2.75	1.50	0.50	0.40

THE ABOVE WLL'S ARE WITH THE COLLAR SEATED ON A FLAT SURFACE AND WITH THREADS FULLY ENGAGED.

High Corrosion Resistance Stainless Steel Bow Shackles with Safety Pin



Product Features

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316) Excellent for lifting applications where a high level of corrosion resistance is required

Factor of Safety 6:1

Available with 2 pin types - E Type Safety Pin with Standard Nut (E Type) or Nyloc Nut (E Type-NY)

Special design of bolt ensures the nut is positioned correctly allowing sufficient room for the cotter pin

Typical Applications

Water utility installations & other corrosive facilities Pump chains and pump lifting Chemical installations - Chlorine plants

General lifting in off-shore applications General lifting and tethering in leisure marine applications General lifting purposes

Quality Features

Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England

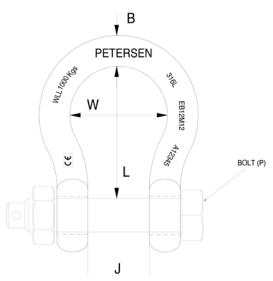
All shackles are manufactured in accordance with the Machine Directive 2006/42/EC Inspection certificate BS EN 10204 3.1b available on request High quality finish and excellent polish







Pin



DIMENSIONS	& WLL
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Part Number	WLL (t)	Bolt Size (P)	Body Dia (B)	Inside Bow (W)	Jaw Gap (J)	Length (L)	Weight (kg)
PE-EB8M8	0.4	M8 Bolt	8.0	25.0	16.0	35.0	0.081
PE-EB10M10	0.6	M10 Bolt	9.5	28.0	19.0	38.0	0.147
* EB11M12	0.8	M12 Bolt	11.5	33.0	22.0	46.0	0.221
PE-EB12M12	1.0	M12 Bolt	12.7	38.0	26.0	52.0	0.354
PE-EB14M16	1.5	M16 Bolt	14.3	43.0	29.0	60.0	0.635
PE-EB16M20	2.5	M20 Bolt	16.0	50.0	32.0	68.0	0.805
PE-EB19M22	3.0	M22 Bolt	19.0	58.0	38.0	76.0	1.25
PE-EB22M24	4.0	M24 Bolt	22.0	66.0	44.0	88.0	1.82
PE-EB24M27	4.5	M27 Bolt	25.4	76.0	50.0	100.0	2.70

^{*}Not stocked. Available on Request.

High Corrosion Resistance Stainless Steel Dee Shackles with Safety Pin



Product Features

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316) Excellent for lifting applications where a high level of corrosion resistance is required

Factor of Safety 6:1

Available with 2 pin types - E Type Safety Pin with Standard Nut (E Type) or Nyloc Nut (E Type-NY)

Special design of bolt ensures the nut is positioned correctly allowing sufficient room for the cotter pin

Typical Applications

Water utility installations & other corrosive facilities
Pump chains and pump lifting
Chemical installations - Chlorine plants etc

General lifting in off-shore applications General lifting and tethering in leisure marine applications General lifting purposes

Quality Features

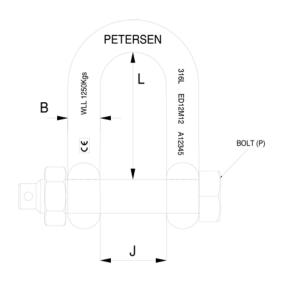
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Dee Shackle



DIMENSIONS & WL	L
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Part Number	WLL (t)	Bolt Size (P)	Body Dia (B)	Jaw Gap (J)	Length (L)	Weight (kg)
* ED8M8	0.5	M8 Bolt	8.0	16.0	32.0	0.075
* ED10M10	0.8	M10 Bolt	9.5	19.0	38.0	0.136
* ED11M12	1.0	M12 Bolt	11.5	22.0	44.0	0.212
* ED12M12	1.25	M12 Bolt	12.7	26.0	52.0	0.331
* ED14M16	1.8	M16 Bolt	14.3	29.0	58.0	0.585
* ED16M20	2.8	M20 Bolt	16.0	32.0	64.0	0.760
* ED19M22	3.3	M22 Bolt	19.0	38.0	76.0	1.18
* ED22M24	4.5	M24 Bolt	22.0	44.0	88.0	1.75
PE-ED25M27	5.0	M27 Bolt	25.4	50.0	100.0	2.60

^{*}Not stocked. Available on Request.

High Tensile Stainless Steel Bow Shackles with Safety Pin

Product Features

Manufactured from 17/4PH precipitation hardening martensitic stainless steel Excellent for general lifting applications - high tensile properties while avoiding work hardening

Corrosion resistance similar to 18/8 grade steels

Factor of Safety 6:1

Available with 4 pin types - Standard Screw Collar Pin (A Type), Extended Screw Collar Pin (AL Type), Countersunk Head (B Type), E Type Safety Pin (E Type) Manufactured using the latest technology in electrical upset forging



Typical Applications

General lifting in off-shore applications General lifting and tethering in leisure marine applications General lifting purposes

Quality Features

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All shackles are manufactured in accordance with the Machine Directive 2006/42/EC Inspection certificate BS EN 10204 3.1b available on request

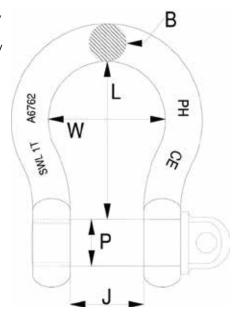
High quality finish and excellent polish



Type A Pin



Type AL Pin



Part Numbe	r	DIMENSIONS	S & WLL					
Type A	Type AL	WLL (t)	Pin Dia(P)	Body Dia (B)	Inside Bow (W)	Jaw Gap (J)	Length (L)	Weight (kg)
* PHB008TA	PE-PHB008TAL	0.8	10.0	8.0	24.0	16.0	32.0	0.090
* PHB015TA	PE-PHB015TAL	1.5	12.7	10	30.0	20.0	40.0	0.158
* PHB025TA	PE-PHB025TAL	2.5	16.0	12.7	38.0	25.0	50.0	0.368
* PHB040TA	* PHB040TAL	4.0	19.0	16.0	48.0	32.0	64.0	0.578
* PHB055TA	* PHB055TAL	5.5	22.2	19.0	57.0	38.0	76.0	1.050
* PHB075TA	* PHB075TAL	7.5	25.4	22.2	66.0	44.0	88.0	1.995
* PHB090TA	* PHB090TAL	9.0	28.6	25.4	76.0	51.0	102.0	3.045
* PHB110TA	* PHB110TAL	11.0	31.8	28.6	86.0	57.0	114.0	3.255
* PHB130TA	* PHB130TAL	13.0	34.9	31.8	95.0	64.0	128.0	4.568
* PHB150TA	* PHB150TAL	15.0	38.0	34.9	105.0	70.0	140.0	5.565

^{*}Not stocked. Available on Request

High Tensile Stainless Steel Dee Shackles with Safety Pin

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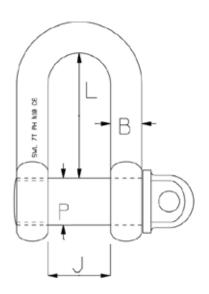
High quality finish and excellent polish



Type A Pin



Type AL Pin



Part Number		DIMENSIONS 8	k WLL				
Type A	Type AL	WLL (t)	Pin Dia(P)	Body Dia (B)	Jaw Gap (J)	Length (L)	Weight (kg)
* PH1TA	* PH1TAL	1.0	10.0	8.0	16.0	32.0	0.085
* PH2TA	* PH2TAL	2.0	12.7	10	20.0	40.0	0.150
* PH3TA	* PH3TAL	3.0	16.0	12.7	25.0	50.0	0.350
PE-PH5TA	* PH5TAL	5.0	19.0	16.0	32.0	64.0	0.550
PE-PH7TA	* PH7TAL	7.0	22.2	19.0	38.0	76.0	1.000
PE-PH9TA	* PH9TAL	9.0	25.4	22.2	44.0	88.0	1.900
PE-PH11TA	* PH11TAL	11.0	28.6	25.4	51.0	102.0	2.900
PE-PH13TA	* PH13TAL	13.0	31.8	28.6	57.0	114.0	3.100
* PH15TA	* PH15TAL	15.0	34.9	31.8	64.0	128.0	4.350
* PH18TA	* PH18TAL	18.0	38.0	34.9	70.0	140.0	5.300

^{*}Not stocked. Available on Request