



## Green Pin Polar<sup>®</sup> Bow Shackle BN

Grade 8 bow shackle with safety bolt for use under low temperatures



### Highlights

- ✓ Perfect for use in low-temperature situations (down to -60 °C / -76°F)
- ✓ Safety bolt: perfect for when rotation of the pin is a risk
- ✓ Conforms to wide range of certifications (e.g. DNV)
- ✓ Superior stock availability of 99%
- ✓ Suitable for both one-leg and multi-leg systems

### Description

The Green Pin Polar<sup>®</sup> Bow Shackle BN is a bow shackle with a safety bolt that has been optimized for use in low temperatures. The shackle can be used in extreme climatic conditions, down to -60°C (-76°F). The shackle offers a double safety (split pin and safety bolt) which prevents accidental unscrewing of the pin. Long-term durability is assured due to the galvanization of the Green Pin Polar<sup>®</sup> Bow Shackle BN. Of course, the Green Pin Polar<sup>®</sup> Bow Shackle BN conforms to a wide range of certifications from class societies such as DNV GL. The Green Pin Polar<sup>®</sup> Bow Shackle BN is suitable for both one-leg and multi-leg systems and is available in a range with a working load limit from 2 up to 85 ton.

### Product details

<b>Productcode</b>	G-5163
<b>Material</b>	bow and pin alloy steel, Grade 8, quenched and tempered
<b>Safety factor</b>	MBL equals 7 x WLL, for shackles with WLL 55 and 85 tons the MBL equals 6 x WLL
<b>Finish</b>	hot dipped galvanized
<b>Certification</b>	<b>2.1 2.2 3.1 MTCa DNV 2.7-1a DNV 2.7-1b DNVGL-ST-0378 ABS PDA ABS MA</b>
<b>Standard</b>	EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A

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## Green Pin Polar® Bow Shackle BN

### Technical specifications in millimeters

Article code	working load limit	Net weight	A diameter bow	B diameter pin	C diameter eye	D width eye	E width inside	F length inside	G width bow	H length	I length bolt	J width	K thickness nut	Net weight (kg)
POGHMB13	2	0.42	13,5	16	34	13	22	51	32	90	80	59	13	0.42
POGHMB16	3,25	0.74	16	19	40	16	27	64	43	110	98	75	17	0.74
POGHMB19	4,75	1.18	19	22	46	19	31	76	51	129	115	89	19	1.18
POGHMB22	6,5	1.77	22	25	52	22	36	83	58	144	130	102	22	1.77
POGHMB25	8,5	2.58	25	28	59	25	43	95	68	164	150	118	25	2.58
POGHMB28	9,5	3.66	28	32	67	28	47	108	75	186	166	131	27	3.66
POGHMB32	12	4.91	32	35	73	32	51	115	83	201	184	147	30	4.91
POGHMB35	13,5	6.54	35	38	79	35	57	133	92	227	197	162	33	6.54
POGHMB38	17	8.19	38	42	88	38	60	146	99	249	202	175	19	8.19
POGHMB45	25	14.2	45	50	104	45	74	178	126	300	243	216	23	14.2
POGHMB50	35	19.9	50	57	112	50	83	197	138	332	269	238	26	19.9
POGHMB57	42,5	28.3	57	65	132	57	95	222	160	378	301	274	29	28.3



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POGHMB65	55	39.6	65	70	145	65	105	260	180	433	329	310	32	39.6
POGHMB75	85	62.0	75	83	167	75	127	330	190	530	381	340	39	62

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### Technical specifications in inches

Article code	Net weight	A diameter bow (inch)	B diameter pin (inch)	C diameter eye (inch)	D width eye (inch)	E width inside (inch)	F length inside (inch)	G width bow (inch)	H length (inch)	I length bolt (inch)	J width (inch)	K thickness nut (inch)	Net weight (LBS)
POGHMB13	0.93	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 17/32	3 5/32	2 5/16	1/2	0.93
POGHMB16	1.63	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 27/32	2 15/16	21/32	1.63
POGHMB19	2.61	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 17/32	3 1/2	3/4	2.61
POGHMB22	3.90	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/8	3.90
POGHMB25	5.69	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 29/32	4 21/32	31/32	5.69
POGHMB28	8.07	1 1/8	1 1/4	2 5/8	1 3/32	1 27/32	4 1/4	2 15/16	7 5/16	6 17/32	5 5/32	1 1/16	8.07
POGHMB32	10.8	1 1/4	1 3/8	2 7/8	1 1/4	2	4 17/32	3 9/32	7 29/32	7 1/4	5 25/32	1 3/16	10.8
POGHMB35	14.4	1 3/8	1 1/2	3 1/8	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	14.4
POGHMB38	18.1	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	7 15/16	6 7/8	3/4	18.1
POGHMB45	31.4	1 3/4	2	4 3/32	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	29/32	31.4
POGHMB50	43.8	2	2 1/4	4 13/32	1 31/32	3 9/32	7 3/4	5 7/16	13 1/16	10 19/32	9 3/8	1 1/32	43.8
POGHMB57	62.5	2 1/4	2 9/16	5 3/16	2 1/4	3 3/4	8 3/4	6 5/16	14 7/8	11 27/32	10 25/32	1 5/32	62.5



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### Technical specifications in inches

Article code	Net weight	A diameter bow (inch)	B diameter pin (inch)	C diameter eye (inch)	D width eye (inch)	E width inside (inch)	F length inside (inch)	G width bow (inch)	H length (inch)	I length bolt (inch)	J width (inch)	K thickness nut (inch)	Net weight (LBS)
POGHMB65	87.3	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	12 15/16	12 7/32	1 1/4	87.3
POGHMB75	137	3	3 1/4	6 9/16	2 15/16	5	13	7 15/32	20 7/8	15	13 3/8	1 17/32	137

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# Green Pin Polar<sup>®</sup> Bow Shackle BN

## Technical drawing

