



Green Pin® Bow Shackle FN

Standard bow shackle with safety bolt and fixed nut



Highlights

- ✓ Triple safety (split pin, safety bolt, fixed nut)
- ✓ Top choice when the load is dynamic or exposed to extreme vibrations
- ✓ Conforms to wide range of certifications (e.g. DNV GL)
- ✓ Suitable for both one-leg and multi-leg systems

Description

The Green Pin® Bow Shackle FN is a bow shackle with a safety bolt and a fixed nut. The Green Pin® Bow Shackle FN offers a triple safety due to the split pin, safety bolt and fixed nut. The fixed nut is drilled through both the shackle nut and pin and is firmly attached to the pin head with bolts and Nord-Lock® washers. When the load is dynamic or can be exposed to extreme vibrations the GreenPin® Bow Shackle FN is thus a top choice. Of course, the Green Pin® Bow Shackle FN conforms to a wide range of certifications from class societies such as DNV GL. The shackle is suitable for both one-leg and multi-leg systems. It is available in a range with a working load limit from 2 up to 85 ton.

Product details

Productcode	G-4143
Material	bow and pin high tensile steel, Grade 6, quenched and tempered
Safety factor	MBL equals 6 x WLL
Finish	hot dipped galvanized
Certification	2.1 2.2 3.1 MTCa DNV 2.7-1a DNV 2.7-1b CE
Standard	EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A, from 2 t and upward these shackles comply with ASME B30.26

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Green Pin® Bow Shackle FN

Technical specifications in millimeters

Article code	working load limit	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	L Securing bolt thread	M securing bolt length	Torque	Nett weight KG
GPGHMB13FN	2	13,5	16	34	13	22	51	32	89	82	58	13	M6	35	9,2	0.42
GPGHMB16FN	3,25	16	19	40	16	27	64	43	110	98	75	17	M6	40	9,2	0.74
GPGHMB19FN	4,75	19	22	46	19	31	76	51	129	114	89	19	M6	45	9,2	1.18
GPGHMB22FN	6,5	22	25	52	22	36	83	58	144	130	102	22	M8	50	22	1.77
GPGHMB25FN	8,5	25	28	59	25	43	95	68	164	150	118	25	M8	55	22	2.58
GPGHMB28FN	9,5	28	32	66	28	47	108	75	185	166	131	27	M10	60	43	3.66
GPGHMB32FN	12	32	35	72	32	51	115	83	201	178	147	30	M10	65	43	4.80
GPGHMB35FN	13,5	35	38	80	35	57	133	92	227	197	162	33	M10	70	43	6.54
GPGHMB38FN	17	38	42	88	38	60	146	99	249	202	175	19	M8	75	22	8.19
GPGHMB45FN	25	45	50	103	45	74	178	126	300	249	216	23	M8	90	22	14.0
GPGHMB50FN	35	50	57	111	50	83	197	138	331	269	238	26	M10	100	43	19.9
GPGHMB57FN	42,5	57	65	130	57	95	222	160	377	301	274	29	M12	110	75	28.3



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Technical specifications in millimeters

Article code	working load limit	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	L Securing bolt thread	M securing bolt length	Torque	Nett weight KG
GPGHMB65FN	55	65	70	145	65	105	260	180	433	330	310	32	M12	120	75	39.6
GPGHMB75FN	85	75	83	163	73	127	329	190	527	380	340	39	M12	140	75	62

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Technical specifications in inches

Article code	working load limit	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)	L Securing bolt thread	M securing bolt length (inch)	Torque	Nett weight LBS
GPGHMB13FN	2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 1/2	3 7/32	2 9/32	1/2	M6	1 3/8	9,2	0.92
GPGHMB16FN	3,25	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 15/32	21/32	M6	1 9/16	9,2	1.62
GPGHMB19FN	4,75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 1/2	3 1/2	3/4	M6	1 3/4	9,2	2.59
GPGHMB22FN	6,5	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	M8	2	22	3.90
GPGHMB25FN	8,5	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	M8	2 5/32	22	5.69
GPGHMB28FN	9,5	1 1/8	1 1/4	2 19/32	1 3/32	1 27/32	4 1/4	2 15/16	7 9/32	6 17/32	5 5/32	1 1/16	M10	2 3/8	43	8.07
GPGHMB32FN	12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	7	5 25/32	1 3/16	M10	2 1/2	43	10.6
GPGHMB35FN	13,5	1 3/8	1 1/2	3 5/32	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	M10	2 3/4	43	14.4
GPGHMB38FN	17	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	M8	2 15/16	22	18.1
GPGHMB45FN	25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	9 13/16	8 1/2	29/32	M8	3 17/32	22	30.8
GPGHMB50FN	35	2	2 1/4	4 3/8	1 31/32	3 9/32	7 3/4	5 7/16	13 1/32	10 19/32	9 3/8	1 1/32	M10	3 15/16	43	43.8
GPGHMB57FN	42,5	2 1/4	2 9/16	5 1/8	2 1/4	3 3/4	8 3/4	6 5/16	14 27/32	11 27/32	10 23/32	1 5/32	M12	4 11/32	75	62.5



Green Pin® Bow Shackle FN

Technical specifications in inches

Article code	working load limit	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)	L Securing bolt thread	M securing bolt length (inch)	Torque	Nett weight LBS
GPGHMB65FN	55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	13	12 7/32	1 1/4	M12	4 23/32	75	87.3
GPGHMB75FN	85	3	3 1/4	6 3/8	2 7/8	5	12 15/16	7 15/32	20 3/4	14 31/32	13 3/8	1 17/32	M12	5 1/2	75	137

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Technical drawing

