



Green Pin[®] Bow Shackle BN

Standard bow shackle with safety bolt



Highlights

- ✓ Double safety (cotter pin & safety bolt)
- ✓ Galvanization assures long-term durability
- ✓ Suitable for both one-leg and multi-leg systems
- ✓ Conforms to wide range of certifications (e.g. DNV)
- ✓ Superior stock availability of 99%

Description

The Green Pin[®] Bow Shackle BN is a bow shackle with a safety bolt. 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[®] Bow Shackle BN. Of course, the Green Pin[®] Bow Shackle BN conforms to a wide range of certifications from class societies such as DNV GL. The Green Pin[®] 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 0.5 up to 85 ton.

Product details

| | |
|----------------------|---|
| Productcode | G-4163 |
| 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 DNVGL-ST-0378 CE ABS PDA ABS MA |
| 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 |



Green Pin® Bow Shackle BN

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 | Nett weight KG |
|--------------|--------------------|----------------|----------------|----------------|-------------|----------------|-----------------|-------------|----------|---------------|---------|-----------------|----------------|
| GPGHMB06 | 0,5 | 7 | 8 | 16 | 7 | 12 | 29 | 20 | 48 | 42 | 34 | 4 | 0.06 |
| GPGHMB08 | 0,75 | 9 | 10 | 20 | 9 | 13,5 | 32 | 22 | 56 | 50 | 40 | 5 | 0.11 |
| GPGHMB10 | 1 | 10 | 11 | 23 | 10 | 17 | 37 | 26 | 64 | 60 | 46 | 8 | 0.16 |
| GPGHMB11 | 1,5 | 11 | 13 | 25 | 11 | 19 | 43 | 29 | 73 | 67 | 51 | 11 | 0.22 |
| GPGHMB13 | 2 | 13,5 | 16 | 34 | 13 | 22 | 51 | 32 | 90 | 80 | 59 | 13 | 0.42 |
| GPGHMB16 | 3,25 | 16 | 19 | 40 | 16 | 27 | 64 | 43 | 110 | 98 | 75 | 17 | 0.74 |
| GPGHMB19 | 4,75 | 19 | 22 | 46 | 19 | 31 | 76 | 51 | 129 | 115 | 89 | 19 | 1.18 |
| GPGHMB22 | 6,5 | 22 | 25 | 52 | 22 | 36 | 83 | 58 | 144 | 130 | 102 | 22 | 1.77 |
| GPGHMB25 | 8,5 | 25 | 28 | 59 | 25 | 43 | 95 | 68 | 164 | 150 | 118 | 25 | 2.58 |
| GPGHMB28 | 9,5 | 28 | 32 | 67 | 28 | 47 | 108 | 75 | 186 | 166 | 131 | 27 | 3.66 |
| GPGHMB32 | 12 | 32 | 35 | 73 | 32 | 51 | 115 | 83 | 201 | 184 | 147 | 30 | 4.91 |
| GPGHMB35 | 13,5 | 35 | 38 | 79 | 35 | 57 | 133 | 92 | 227 | 197 | 162 | 33 | 6.54 |



Green Pin® Bow Shackle BN

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 | Nett weight KG |
|--------------|--------------------|----------------|----------------|----------------|-------------|----------------|-----------------|-------------|----------|---------------|---------|-----------------|----------------|
| GPGHMB38 | 17 | 38 | 42 | 88 | 38 | 60 | 146 | 99 | 249 | 202 | 175 | 19 | 8.19 |
| GPGHMB45 | 25 | 45 | 50 | 104 | 45 | 74 | 178 | 126 | 300 | 243 | 216 | 23 | 14.0 |
| GPGHMB50 | 35 | 50 | 57 | 112 | 50 | 83 | 197 | 138 | 332 | 269 | 238 | 26 | 18.8 |
| GPGHMB57 | 42,5 | 57 | 65 | 132 | 57 | 95 | 222 | 160 | 378 | 301 | 274 | 29 | 28.3 |
| GPGHMB65 | 55 | 65 | 70 | 145 | 65 | 105 | 260 | 180 | 433 | 329 | 310 | 32 | 39.6 |
| GPGHMB75 | 85 | 75 | 83 | 167 | 75 | 127 | 330 | 190 | 530 | 381 | 340 | 39 | 62 |

www.greenpin.com



Green Pin® Bow Shackle BN

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) | Nett weight LBS |
|--------------|--------------------|-----------------------|-----------------------|-----------------------|--------------------|-----------------------|------------------------|--------------------|-----------------|----------------------|----------------|------------------------|-----------------|
| GPGHMB06 | 0,5 | 1/4 | 5/16 | 5/8 | 9/32 | 15/32 | 1 5/32 | 25/32 | 1 7/8 | 1 21/32 | 1 11/32 | 5/32 | 0.13 |
| GPGHMB08 | 0,75 | 5/16 | 3/8 | 25/32 | 11/32 | 17/32 | 1 1/4 | 7/8 | 2 7/32 | 1 31/32 | 1 9/16 | 3/16 | 0.25 |
| GPGHMB10 | 1 | 3/8 | 7/16 | 29/32 | 13/32 | 21/32 | 1 15/32 | 1 1/32 | 2 17/32 | 2 3/8 | 1 13/16 | 5/16 | 0.34 |
| GPGHMB11 | 1,5 | 7/16 | 1/2 | 31/32 | 7/16 | 3/4 | 1 11/16 | 1 5/32 | 2 7/8 | 2 5/8 | 2 | 7/16 | 0.48 |
| GPGHMB13 | 2 | 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 | 0.92 |
| GPGHMB16 | 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 15/16 | 21/32 | 1.62 |
| GPGHMB19 | 4,75 | 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 | 2.59 |
| GPGHMB22 | 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 | 3.90 |
| GPGHMB25 | 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 | 5.69 |
| GPGHMB28 | 9,5 | 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 |
| GPGHMB32 | 12 | 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 |
| GPGHMB35 | 13,5 | 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 |



Green Pin® Bow Shackle BN

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) | Nett weight LBS |
|--------------|--------------------|-----------------------|-----------------------|-----------------------|--------------------|-----------------------|------------------------|--------------------|-----------------|----------------------|----------------|------------------------|-----------------|
| GPGHMB38 | 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 | 18.1 |
| GPGHMB45 | 25 | 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 | 30.8 |
| GPGHMB50 | 35 | 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 | 41.5 |
| GPGHMB57 | 42,5 | 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 23/32 | 1 5/32 | 62.5 |
| GPGHMB65 | 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 | 12 15/16 | 12 7/32 | 1 1/4 | 87.3 |
| GPGHMB75 | 85 | 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 |

www.greenpin.com



Green Pin® Bow Shackle BN

Technical drawing

