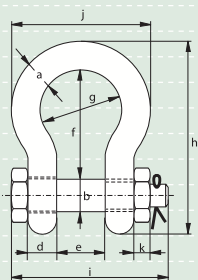


G-4163



## Green Pin® Standard Shackles

### bow shackles with safety bolt

- **Material** : bow and pin high tensile steel, Grade 6, quenched and tempered
- **Safety Factor** : MBL equals 6 x WLL
- **Standard** : EN 13889 and  
meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A
- **Finish** : hot dipped galvanized
- **Temperature Range** : -20°C up to +200°C
- **Certificates** : at no extra charges this product can be supplied with a works certificate, certificate of basic raw material, manufacturer test certificate and/or EC Declaration of Conformity

| working load limit | diameter bow | diameter pin | diameter eye | width eye | width inside | length inside | width bow | length bow | length bolt | width bow | thickness nut | weight each |
|--------------------|--------------|--------------|--------------|-----------|--------------|---------------|-----------|------------|-------------|-----------|---------------|-------------|
| tons               | a mm         | b mm         | c mm         | d mm      | e mm         | f mm          | g mm      | h mm       | i mm        | j mm      | k mm          | kg          |
| 0.5                | 7            | 8            | 17           | 7         | 12           | 29            | 20        | 54         | 43          | 37        | 4             | 0.06        |
| 0.75               | 9            | 10           | 21           | 9         | 13.5         | 32            | 22        | 61         | 51          | 42        | 5             | 0.11        |
| 1                  | 10           | 11           | 23           | 10        | 17           | 36.5          | 26        | 71         | 61          | 49        | 8             | 0.16        |
| 1.5                | 11           | 13           | 26           | 11        | 19           | 43            | 29        | 80         | 68          | 54        | 11            | 0.22        |
| 2                  | 13.5         | 16           | 34           | 13.5      | 22           | 51            | 32        | 91         | 83          | 63        | 13            | 0.42        |
| 3.25               | 16           | 19           | 40           | 16        | 27           | 64            | 43        | 114        | 99          | 79        | 17            | 0.74        |
| 4.75               | 19           | 22           | 47           | 19        | 31           | 76            | 51        | 136        | 115         | 94        | 20            | 1.18        |
| 6.5                | 22           | 25           | 53           | 22        | 36           | 83            | 58        | 157        | 131         | 107       | 23            | 1.77        |
| 8.5                | 25           | 28           | 60           | 25        | 43           | 95            | 68        | 176        | 151         | 124       | 25            | 2.58        |
| 9.5                | 28           | 32           | 67           | 28        | 47           | 108           | 75        | 197        | 167         | 137       | 28            | 3.66        |
| 12                 | 32           | 35           | 74           | 32        | 51           | 115           | 83        | 218        | 179         | 154       | 31            | 4.91        |
| 13.5               | 35           | 38           | 80           | 35        | 57           | 133           | 92        | 240        | 198         | 170       | 34            | 6.54        |
| 17                 | 38           | 42           | 89           | 38        | 60           | 146           | 99        | 262        | 203         | 183       | 19            | 8.19        |
| 25                 | 45           | 50           | 104          | 45        | 74           | 178           | 126       | 314        | 244         | 226       | 24            | 14.22       |
| 35                 | 50           | 57           | 119          | 50        | 83           | 197           | 138       | 358        | 270         | 250       | 27            | 19.85       |
| 42.5               | 57           | 65           | 134          | 57        | 95           | 222           | 160       | 414        | 302         | 287       | 30            | 28.33       |
| 55                 | 65           | 70           | 145          | 65        | 105          | 260           | 180       | 463        | 330         | 329       | 33            | 39.59       |
| 85                 | 75           | 83           | 163          | 75        | 127          | 329           | 190       | 556        | 376         | 355       | 40            | 62          |

In inch

| working load limit | diameter bow | diameter pin | diameter eye | width eye | width inside | length inside | width bow | length bow | length bolt | width bow | thickness nut | weight each |
|--------------------|--------------|--------------|--------------|-----------|--------------|---------------|-----------|------------|-------------|-----------|---------------|-------------|
| tons               | a inch       | b inch       | c inch       | d inch    | e inch       | f inch        | g inch    | h inch     | i inch      | j inch    | k inch        | lbs         |
| 0.5                | 1/4          | 5/16         | 11/16        | 9/32      | 1/2          | 1 5/32        | 25/32     | 2 1/8      | 1 23/32     | 1 1/2     | 5/32          | 0.13        |
| 0.75               | 5/16         | 3/8          | 13/16        | 11/32     | 17/32        | 1 9/32        | 7/8       | 2 3/8      | 2           | 1 11/16   | 3/16          | 0.25        |
| 1                  | 3/8          | 7/16         | 29/32        | 3/8       | 11/16        | 1 7/16        | 1         | 2 25/32    | 2 3/8       | 1 15/16   | 5/16          | 0.34        |
| 1.5                | 7/16         | 1/2          | 1 1/32       | 7/16      | 3/4          | 1 23/32       | 1 5/32    | 3 5/32     | 2 11/16     | 2 1/8     | 7/16          | 0.48        |
| 2                  | 1/2          | 5/8          | 1 11/32      | 17/32     | 7/8          | 2             | 1 9/32    | 3 19/32    | 3 9/32      | 2 1/2     | 17/32         | 0.92        |
| 3.25               | 5/8          | 3/4          | 1 19/32      | 5/8       | 1 3/32       | 2 17/32       | 1 23/32   | 4 1/2      | 3 29/32     | 3 1/8     | 11/16         | 1.62        |
| 4.75               | 3/4          | 7/8          | 1 7/8        | 3/4       | 1 1/4        | 3             | 2         | 5 11/32    | 4 17/32     | 3 23/32   | 25/32         | 2.59        |
| 6.5                | 7/8          | 1            | 2 3/32       | 7/8       | 1 7/16       | 3 9/32        | 2 9/32    | 6 5/32     | 5 5/32      | 4 3/16    | 29/32         | 3.9         |
| 8.5                | 1            | 1 1/8        | 2 11/32      | 1         | 1 23/32      | 3 3/4         | 2 11/16   | 6 29/32    | 5 15/16     | 4 7/8     | 1             | 5.69        |
| 9.5                | 1 1/8        | 1 1/4        | 2 5/8        | 1 1/8     | 1 7/8        | 4 1/4         | 2 15/16   | 7 3/4      | 6 19/32     | 5 3/8     | 1 1/8         | 8.06        |
| 12                 | 1 1/4        | 1 3/8        | 2 29/32      | 1 9/32    | 2            | 4 17/32       | 3 9/32    | 8 9/16     | 7 1/32      | 6 3/32    | 1 1/4         | 10.81       |
| 13.5               | 1 3/8        | 1 1/2        | 3 5/32       | 1 3/8     | 2 1/4        | 5 1/4         | 3 5/8     | 9 7/16     | 7 25/32     | 6 23/32   | 1 11/32       | 14.42       |
| 17                 | 1 1/2        | 1 5/8        | 3 1/2        | 1 17/32   | 2 11/32      | 5 3/4         | 3 29/32   | 10 5/16    | 8           | 7 3/16    | 3/4           | 18.06       |
| 25                 | 1 3/4        | 2            | 4 1/8        | 1 25/32   | 2 29/32      | 7             | 4 15/16   | 12 11/32   | 9 19/32     | 8 29/32   | 1 5/16        | 31.34       |
| 35                 | 2            | 2 1/4        | 4 11/16      | 2 31/32   | 3 9/32       | 7 3/4         | 5 7/16    | 14 3/32    | 10 5/8      | 9 13/16   | 1 3/32        | 43.77       |
| 42.5               | 2 1/4        | 2 9/16       | 5 9/32       | 2 1/4     | 3 3/4        | 8 3/4         | 6 9/32    | 16 5/16    | 11 7/8      | 11 5/16   | 1 3/16        | 62.46       |
| 55                 | 2 1/2        | 2 3/4        | 5 3/4        | 2 9/16    | 4 1/8        | 10 1/4        | 7 9/32    | 18 1/4     | 13          | 12 15/16  | 1 5/16        | 87.27       |
| 85                 | 3            | 3 1/4        | 6 7/16       | 2 15/16   | 5            | 12 15/16      | 7 1/2     | 21 29/32   | 14 25/32    | 14        | 1 19/32       | 136.69      |



DNV

TYPE APPROVED PRODUCT  
CERTIFICATION NOTE 2.2-1  
CERTIFICATE NO. S-4208

