

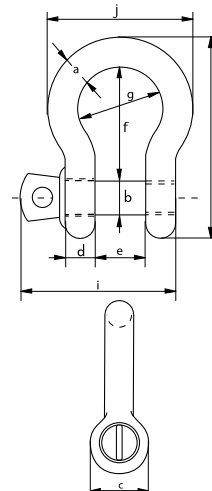


## Green Pin® Standard Shackles

### Bow Shackles with Screw Collar Pin

- 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 2, Grade A
- Finish** : hot dipped galvanized
- Temperature Range** : -20°C up to +200°C
- Certification** : At no extra charges this product can be supplied with a works certificate, 3.1 material certificate, manufacturer test certificate, EC Declaration of Conformity and all shackles starting from 2 t can be supplied with DNV 2.7-1 certificate.

**Note** : For details on dimensions and tolerances please consult our CAD drawings, these are available on request.



| working<br>load<br>limit | diameter<br>bow | diameter<br>pin | diameter<br>eye | width<br>eye | width<br>inside | length<br>inside | width<br>bow | length  | length<br>bolt | width   | weight<br>each |
|--------------------------|-----------------|-----------------|-----------------|--------------|-----------------|------------------|--------------|---------|----------------|---------|----------------|
| t                        | a<br>mm         | b<br>mm         | c<br>mm         | d<br>mm      | e<br>mm         | f<br>mm          | g<br>mm      | H<br>mm | i<br>mm        | j<br>mm | kg             |
| 0.33                     | 5               | 6               | 12              | 5            | 9.5             | 22               | 16           | 36      | 29.5           | 26      | 0.02           |
| 0.5                      | 7               | 8               | 16.5            | 7            | 12              | 29               | 20           | 48.5    | 38             | 34      | 0.05           |
| 0.75                     | 9               | 10              | 20              | 9            | 13.5            | 32               | 22           | 56      | 46.5           | 40      | 0.1            |
| 1                        | 10              | 11              | 22.5            | 10           | 17              | 36.5             | 26           | 63.5    | 54             | 46      | 0.14           |
| 1.5                      | 11              | 13              | 26.5            | 11           | 19              | 43               | 29           | 74      | 59.5           | 51      | 0.19           |
| 2                        | 13.5            | 16              | 34              | 13           | 22              | 51               | 32           | 89      | 73             | 58      | 0.36           |
| 3.25                     | 16              | 19              | 40              | 16           | 27              | 64               | 43           | 110     | 89             | 75      | 0.63           |
| 4.75                     | 19              | 22              | 46              | 19           | 31              | 76               | 51           | 129     | 103            | 89      | 1.01           |
| 6.5                      | 22              | 25              | 52              | 22           | 36              | 83               | 58           | 144     | 119            | 102     | 1.5            |
| 8.5                      | 25              | 28              | 59              | 25           | 43              | 95               | 68           | 164     | 137            | 118     | 2.21           |
| 9.5                      | 28              | 32              | 66              | 28           | 47              | 108              | 75           | 185     | 153            | 131     | 3.16           |
| 12                       | 32              | 35              | 72              | 32           | 51              | 115              | 83           | 201     | 170            | 147     | 4.31           |
| 13.5                     | 35              | 38              | 80              | 35           | 57              | 133              | 92           | 227     | 186            | 162     | 5.55           |
| 17                       | 38              | 42              | 88              | 38           | 60              | 146              | 99           | 249     | 203            | 175     | 7.43           |
| 25                       | 45              | 50              | 103             | 45           | 74              | 178              | 126          | 300     | 243            | 216     | 12.84          |
| 35                       | 50              | 57              | 111             | 50           | 83              | 197              | 138          | 331     | 272            | 238     | 18.15          |
| 42.5                     | 57              | 65              | 130             | 57           | 95              | 222              | 160          | 377     | 310            | 274     | 26.29          |
| 55                       | 65              | 70              | 145             | 65           | 105             | 260              | 180          | 433     | 344            | 310     | 37.6           |

■ In inch

| working<br>load<br>limit | diameter<br>bow | diameter<br>pin  | diameter<br>eye   | width<br>eye      | width<br>inside   | length<br>inside  | width<br>bow      | length             | length<br>bolt     | width              | weight<br>each |
|--------------------------|-----------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|----------------|
| t                        | a<br>inch       | b<br>inch        | c<br>inch         | d<br>inch         | e<br>inch         | f<br>inch         | g<br>inch         | H<br>inch          | i<br>inch          | j<br>inch          | lbs            |
| 0.33                     | $\frac{3}{16}$  | $\frac{1}{4}$    | $\frac{1}{2}$     | $\frac{3}{16}$    | $\frac{3}{8}$     | $\frac{7}{8}$     | $\frac{5}{8}$     | $1 \frac{13}{32}$  | $1 \frac{5}{32}$   | $1 \frac{1}{32}$   | 0.05           |
| 0.5                      | $\frac{1}{4}$   | $\frac{5}{16}$   | $\frac{21}{32}$   | $\frac{9}{32}$    | $\frac{15}{32}$   | $1 \frac{5}{32}$  | $\frac{25}{32}$   | $1 \frac{29}{32}$  | $1 \frac{1}{2}$    | $1 \frac{11}{32}$  | 0.11           |
| 0.75                     | $\frac{5}{16}$  | $\frac{3}{8}$    | $\frac{25}{32}$   | $\frac{11}{32}$   | $\frac{17}{32}$   | $1 \frac{1}{4}$   | $\frac{7}{8}$     | $2 \frac{7}{32}$   | $1 \frac{27}{32}$  | $1 \frac{9}{16}$   | 0.22           |
| 1                        | $\frac{3}{8}$   | $\frac{7}{16}$   | $\frac{7}{8}$     | $\frac{13}{32}$   | $\frac{21}{32}$   | $1 \frac{7}{16}$  | $1 \frac{1}{32}$  | $2 \frac{1}{2}$    | $2 \frac{1}{8}$    | $1 \frac{13}{16}$  | 0.3            |
| 1.5                      | $\frac{7}{16}$  | $\frac{1}{2}$    | $1 \frac{1}{32}$  | $\frac{7}{16}$    | $\frac{3}{4}$     | $1 \frac{11}{16}$ | $1 \frac{5}{32}$  | $2 \frac{29}{32}$  | $2 \frac{11}{32}$  | 2                  | 0.42           |
| 2                        | $\frac{1}{2}$   | $\frac{5}{8}$    | $1 \frac{11}{32}$ | $\frac{1}{2}$     | $\frac{7}{8}$     | 2                 | $1 \frac{1}{4}$   | $3 \frac{1}{2}$    | $2 \frac{7}{8}$    | $2 \frac{9}{32}$   | 0.79           |
| 3.25                     | $\frac{5}{8}$   | $\frac{3}{4}$    | $1 \frac{9}{16}$  | $\frac{5}{8}$     | $1 \frac{1}{16}$  | $2 \frac{17}{32}$ | $1 \frac{11}{16}$ | $4 \frac{11}{32}$  | $3 \frac{1}{2}$    | $2 \frac{15}{16}$  | 1.38           |
| 4.75                     | $\frac{3}{4}$   | $\frac{7}{8}$    | $1 \frac{13}{16}$ | $\frac{3}{4}$     | $1 \frac{7}{32}$  | 3                 | 2                 | $5 \frac{3}{32}$   | $4 \frac{1}{16}$   | $3 \frac{1}{2}$    | 2.22           |
| 6.5                      | $\frac{7}{8}$   | 1                | $2 \frac{1}{16}$  | $\frac{7}{8}$     | $1 \frac{13}{32}$ | $3 \frac{9}{32}$  | $2 \frac{9}{32}$  | $5 \frac{21}{32}$  | $4 \frac{11}{16}$  | $4 \frac{1}{32}$   | 3.31           |
| 8.5                      | 1               | $1 \frac{1}{8}$  | $2 \frac{5}{16}$  | $\frac{31}{32}$   | $1 \frac{11}{16}$ | $3 \frac{3}{4}$   | $2 \frac{11}{16}$ | $6 \frac{15}{32}$  | $5 \frac{13}{32}$  | $4 \frac{21}{32}$  | 4.86           |
| 9.5                      | $1 \frac{1}{8}$ | $1 \frac{1}{4}$  | $2 \frac{19}{32}$ | $1 \frac{3}{32}$  | $1 \frac{27}{32}$ | $4 \frac{1}{4}$   | $2 \frac{15}{16}$ | $7 \frac{9}{32}$   | $6 \frac{1}{32}$   | $5 \frac{5}{32}$   | 6.97           |
| 12                       | $1 \frac{1}{4}$ | $1 \frac{3}{8}$  | $2 \frac{27}{32}$ | $1 \frac{1}{4}$   | 2                 | $4 \frac{17}{32}$ | $3 \frac{9}{32}$  | $7 \frac{29}{32}$  | $6 \frac{11}{16}$  | $5 \frac{25}{32}$  | 9.49           |
| 13.5                     | $1 \frac{3}{8}$ | $1 \frac{1}{2}$  | $3 \frac{5}{32}$  | $1 \frac{3}{8}$   | $2 \frac{1}{4}$   | $5 \frac{1}{4}$   | $3 \frac{5}{8}$   | $8 \frac{15}{16}$  | $7 \frac{5}{16}$   | $6 \frac{3}{8}$    | 12.24          |
| 17                       | $1 \frac{1}{2}$ | $1 \frac{5}{8}$  | $3 \frac{15}{32}$ | $1 \frac{1}{2}$   | $2 \frac{3}{8}$   | $5 \frac{3}{4}$   | $3 \frac{29}{32}$ | $9 \frac{13}{16}$  | 8                  | $6 \frac{7}{8}$    | 16.37          |
| 25                       | $1 \frac{3}{4}$ | 2                | $4 \frac{1}{16}$  | $1 \frac{25}{32}$ | $2 \frac{29}{32}$ | 7                 | $4 \frac{31}{32}$ | $11 \frac{13}{16}$ | $9 \frac{9}{16}$   | $8 \frac{1}{2}$    | 28.31          |
| 35                       | 2               | $2 \frac{1}{4}$  | $4 \frac{3}{8}$   | $1 \frac{31}{32}$ | $3 \frac{9}{32}$  | $7 \frac{3}{4}$   | $5 \frac{7}{16}$  | $13 \frac{1}{32}$  | $10 \frac{23}{32}$ | $9 \frac{3}{8}$    | 40.01          |
| 42.5                     | $2 \frac{1}{4}$ | $2 \frac{9}{16}$ | $5 \frac{1}{8}$   | $2 \frac{1}{4}$   | $3 \frac{3}{4}$   | $8 \frac{3}{4}$   | $6 \frac{5}{16}$  | $14 \frac{27}{32}$ | $12 \frac{7}{32}$  | $10 \frac{25}{32}$ | 57.96          |
| 55                       | $2 \frac{1}{2}$ | $2 \frac{3}{4}$  | $5 \frac{23}{32}$ | $2 \frac{9}{16}$  | $4 \frac{1}{8}$   | $10 \frac{1}{4}$  | $7 \frac{3}{32}$  | $17 \frac{1}{16}$  | $13 \frac{17}{32}$ | $12 \frac{7}{32}$  | 82.89          |

