PIERŚCIENIE DIN 472 JS - WZMOCNIONE

|  | $0$ |  |  |  |  |  |  |  | - |  |  |  | $D A N E$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{d}_{1}$ | s | $\Delta$ | $\mathrm{d}_{3}$ | $\Delta$ | a max. | b \% | $\mathrm{d}_{5} \mathrm{~min}$. | $\frac{\stackrel{\circ}{\mathrm{L}}}{(\mathrm{~kg} / 1000)}$ | $\mathrm{d}_{2}$ | $\Delta$ | m min. | $\dagger$ | n | FN (kN) | FR (kN) | 9 | FRg (kN) | AN ( $\mathrm{mm}^{2}$ ) | B |
| 20 | 1.50 |  | 21.5 |  | 4.1 | 2.4 | 2.0 | 1.4 | 21.0 |  | 1.60 | 0.50 | 1.5 | 5.4 | 16.2 | 1.0 | 5.8 | 32 | 2.25 |
| 22 | 1.50 |  | 23.5 |  | 4.8 | 2.8 | 2.0 | 1.9 | 23.0 | +0.15 | 1.60 | 0.50 |  | 5.9 | 18.0 |  | 6.1 | 35 | 2.25 |
| 24 | 1.50 |  | 25.9 | +0.42 | 4.9 | 3.0 | 2.0 | 2.0 | 25.2 |  | 1.60 | 0.60 | 1.8 | 7.7 | 21.7 |  | 7.2 | 46 | 1.56 |
| 25 | 1.50 |  | 26.9 |  | 4.9 | 3.1 | 2.0 | 2.1 | 26.2 |  | 1.60 | 0.60 |  | 8.0 | 22.8 |  | 7.3 | 48 | 1.56 |
| 26 | 1.50 |  | 27.9 |  | 5.1 | 3.1 | 2.0 | 2.3 | 27.2 | +0.21 | 1.60 | 0.60 |  | 8.4 | 21.6 |  | 7.2 | 50 | 1.56 |
| 27 | 1.50 |  | 29.1 |  | 5.1 | 3.2 | 2.0 | 2.4 | 28.4 |  | 1.60 | 0.70 | 2.1 | 10.1 | 20.8 | 1.0 | 7.0 | 60 | 1.56 |
| 28 | 1.50 | -0.06 | 30.1 |  | 5.1 | 3.2 | 2.0 | 2.5 | 29.4 |  | 1.60 | 0.70 |  | 10.5 | 20.8 |  | 7.0 | 63 | 1.56 |
| 30 | 1.50 |  | 32.1 |  | 5.1 | 3.3 | 2.0 | 2.7 | 31.4 |  | 1.60 | 0.70 |  | 11.3 | 21.4 |  | 7.2 | 67 | 1.56 |
| 32 | 1.50 |  | 34.4 | +0.50 | 5.4 | 3.4 | 2.0 | 2.9 | 33.7 |  | 1.60 | 0.85 | 2.6 | 14.6 | 21.4 |  | 7.3 | 87 | 1.56 |
| 34 | 1.75 |  | 36.5 | -0.25 | 5.6 | 3.7 | 2.5 | 4.1 | 35.7 |  | 1.85 | 0.85 |  | 15.4 | 35.6 | 1.5 | 8.6 | 92 | 1.36 |
|  | 1.75 |  | 37.8 |  | 5.6 | 3.8 | 2.5 | 4.5 | 37.0 |  | 1.85 | 1.00 | 3.0 | 18.8 | 36.6 | 1.5 | 8.7 | 113 | 1.36 |
| 37 | 1.75 |  | 39.8 |  | 5.8 | 3.9 | 2.5 | 4.7 | 39.0 |  | 1.85 | 1.00 |  | 19.8 | 36.8 |  | 8.8 | 119 | 1.36 |
| 38 | 1.75 |  | 40.8 |  | 5.8 | 3.9 | 2.5 | 4.8 | 40.0 | +0.25 | 1.85 | 1.00 |  | 22.5 | 38.3 |  | 9.1 | 123 | 1.36 |
| 40 | 2.00 |  | 43.5 |  | 5.8 | 3.9 | 2.5 | 5.1 | 42.5 |  | 2.15 | 1.25 | 3.8 | 27.0 | 58.4 | 2.0 | 10.9 | 162 | 1.31 |
| 42 | 2.00 |  | 45.5 | +0.90-0.39 | 5.9 | 4.1 | 2.5 | 5.6 | 44.5 |  | 2.15 | 1.25 |  | 28.4 | 58.5 |  | 11.0 | 170 | 1.31 |
| 45 |  |  |  |  |  |  |  |  |  |  |  |  | 3.8 |  |  | 2.0 |  | 181 | 1.31 |
| 47 | 2.00 | -0.07 | 50.5 |  | 6.4 | 4.4 | 2.5 | 6.7 | 49.5 |  | 2.15 | 1.25 |  | 31.4 | 57.0 |  | 10.8 | 189 | 1.31 |
| 50 | 2.50 |  | 54.2 |  | 6.5 | 4.6 | 2.5 | 8.8 | 53.0 |  | 2.65 | 1.50 | 4.5 | 40.5 | 95.5 |  | 19.0 | 243 | 1.57 |
| 52 | 2.50 |  | 56.2 |  | 6.7 | 4.7 | 2.5 | 9.9 | 55.0 |  | 2.65 | 1.50 |  | 42.0 | 94.6 |  | 18.8 | 252 | 1.57 |
| 55 | 2.50 |  | 59.2 |  | 6.8 | 5.0 | 2.5 | 10.4 | 58.0 |  | 2.65 | 1.50 |  | 44.4 | 94.7 |  | 19.6 | 266 | 1.57 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 4.5 |  |  | 2.0 |  |  | 2.25 |
| 62 | 3.00 |  | 66.2 | +1.10 | 7.3 | 5.5 | 2.5 | 16.1 | 65.0 |  | 3.15 | 1.50 |  | 49.8 | 137.0 |  | 29.2 | 299 | 2.25 |
| 64 | 3.00 |  | 68.2 | -0.46 | 7.4 | 5.6 | 3.0 | 16.5 | 67.0 | +0.30 | 3.15 | 1.50 |  | 51.4 | 137.0 |  | 30.0 | 308 | 2.25 |
| 65 | 3.00 |  | 69.2 |  | 7.6 | 5.8 | 3.0 | 16.6 | 68.0 |  | 3.15 | 1.50 |  | 51.8 | 174.0 | 2.5 | 30.0 | 313 | 1.44 |
| 68 | 3.00 | -0.08 | 72.5 |  | 7.8 | 6.1 | 3.0 | 17.2 | 71.0 |  | 3.15 | 1.50 |  | 54.5 | 174.0 |  | 30.6 | 327 | 1.44 |
| 70 | 3.00 |  | 74.5 |  | 7.8 | 6.2 | 3.0 | 18.0 | 73.0 |  | 3.15 | 1.50 | 4.5 | 56.2 | 171.0 | 2.5 | 30.3 | 337 | 1.44 |
| 72 | 3.00 |  | 76.5 |  | 7.8 | 6.4 | 3.0 | 21.7 | 75.0 |  | 3.15 | 1.50 |  | 58.0 | 172.0 |  | 30.3 | 346 | 1.44 |
| 75 | 3.00 |  | 79.5 |  | 7.8 | 6.6 | 3.0 | 22.6 | 78.0 |  | 3.15 | 1.50 |  | 60.0 | 170.0 |  | 30.3 | 360 | 1.44 |
| 80 | 4.00 |  | 85.5 |  | 8.5 | 7.0 | 3.0 | 33.2 | 83.5 |  | 4.15 | 1.75 | 5.3 | 74.6 | 308.0 |  | 56.0 | 448 | 2.56 |
| 85 | 4.00 |  | 90.5 |  | 8.6 | 7.2 | 3.5 | 33.8 | 88.5 |  | 4.15 | 1.75 |  | 79.5 | 358.0 | 3.0 | 55.0 | 477 | 1.78 |
| 90 | 4.00 | -0.10 | 95.5 | +1.30 | 8.6 | 7.6 | 3.5 | 41.3 | 93.5 | +0.35 | 4.15 | 1.75 | 5.3 | 84.0 | 354.0 | 3.0 | 56.0 | 504 | 1.78 |
| 95 | 4.00 |  | 100.5 | -0.54 | 8.8 | 8.1 | 3.5 | 46.7 | 98.5 |  | 4.15 | 1.75 |  | 88.6 | 347.0 |  | 56.0 | 532 | 1.78 |
| 100 | 4.00 |  | 105.5 |  | 9.2 | 8.4 | 3.5 | 50.7 | 103.5 |  | 4.15 | 1.75 |  | 93.1 | 335.0 |  | 55.0 | 559 | 1.78 |
| 105 | 5.00 |  | 112.0 |  | 10.2 | 8.7 | 4.0 | 70.0 | 109.0 |  | 5.15 | 2.00 | 6.0 | 112.0 | 681.0 |  | 114.0 | 672 | 1.56 |
| 110 | 5.00 | -0.12 | 117.0 |  | 10.4 | 9.0 | 4.0 | 81.0 | 114.0 | +0.54 | 5.15 | 2.00 |  | 117.0 | 648.0 |  | 111.0 | 704 | 1.56 |

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|  | $\circlearrowright$ |  |  |  |  |  |  |  | $7$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{d}_{1}$ | s | $\Delta$ | $\mathrm{d}_{3}$ | $\Delta$ | a max. | b $\sim$ | $\mathrm{d}_{5} \mathrm{~min}$. | $\frac{\stackrel{\circ}{i}}{(\mathrm{~kg} / 1000)}$ | $\mathrm{d}_{2}$ | $\Delta$ | m min. | $\dagger$ | n | FN (kN) | FR (kN) | g | FRg (kN) | $\mathrm{AN}\left(\mathrm{mm}^{2}\right)$ | B |
| 115 | 5.00 |  | 122.0 |  | 10.5 | 9.3 | 4.0 | 94.0 | 119.0 | +0.54 | 5.15 | 2.00 | 6.0 | 122.0 | 639.0 | 3.0 | 111.0 | 735 | 1.56 |
| 120 | 5.00 |  | 127.0 |  | 11.2 | 9.7 | 4.0 | 98.0 | 124.0 |  | 5.15 | 2.00 |  | 127.0 | 618.0 |  | 109.0 | 767 | 1.56 |
| 125 | 5.00 |  | 132.0 |  | 11.2 | 10.0 | 4.0 | 102.0 | 129.0 |  | 5.15 | 2.00 |  | 132.0 | 602.0 |  | 109.0 | 797 | 1.56 |
| 130 | 5.00 |  | 137.0 |  | 11.2 | 10.2 | 4.0 | 105.0 | 134.0 |  | 5.15 | 2.00 |  | 138.0 | 584.0 |  | 108.0 | 829 | 1.56 |
| 135 | 5.00 |  | 142.0 |  | 11.2 | 10.5 | 4.0 | 107.0 | 139.0 |  | 5.15 | 2.00 |  | 143.0 | 559.0 |  | 105.0 | 860 | 1.56 |
| 140 | 5.00 |  | 147.0 | +1.50 | 11.2 | 10.7 | 4.0 | 110.0 | 144.0 |  | 5.15 | 2.00 | 6.0 | 148.0 | 546.0 | 3.0 | 104.0 | 892 | 1.56 |
| 145 | 5.00 |  | 152.0 | -0.63 | 11.2 | 10.9 | 4.0 | 116.0 | 149.0 |  | 5.15 | 2.00 |  | 153.0 | 525.0 |  | 102.0 | 923 | 1.56 |
| 150 | 5.00 |  | 158.0 |  | 12.2 | 11.2 | 4.0 | 131.0 | 155.0 | +0.63 | 5.15 | 2.50 | 7.5 | 191.0 | 509.0 |  | 100.0 | 1198 | 1.56 |
| 155 | 5.00 |  | 164.0 |  | 12.2 | 11.4 | 4.0 | 134.0 | 160.0 |  | 5.15 | 2.50 |  | 206.0 | 506.0 | 3.5 | 86.0 | 1237 | 1.56 |
| 160 | 5.00 |  | 169.0 |  | 13.2 | 11.6 | 4.0 | 138.0 | 165.0 |  | 5.15 | 2.50 |  | 212.0 | 501.0 |  | 85.0 | 1275 | 1.56 |
| 165 | 5.00 |  | 174.5 |  | 14.2 | 11.8 | 4.0 | 156.0 | 170.0 |  | 5.15 | 2.50 | 7.5 | 219.0 | 498.0 | 3.5 | 84.0 | 1315 | 1.56 |
| 170 | 5.00 |  | 179.5 |  | 14.2 | 12.2 | 4.0 | 175.0 | 175.0 |  | 5.15 | 2.50 |  | 225.0 | 545.0 |  | 92.0 | 1355 | 1.56 |
| 175 | 5.00 |  | 184.5 |  | 14.2 | 12.7 | 4.0 | 188.0 | 180.0 |  | 5.15 | 2.50 |  | 232.0 | 548.0 |  | 92.0 | 1393 | 1.56 |
| 180 | 5.00 |  | 189.5 |  | 14.2 | 13.2 | 4.0 | 207.0 | 185.0 |  | 5.15 | 2.50 |  | 238.0 | 542.0 |  | 91.0 | 1432 | 1.56 |
| 185 | 5.00 |  | 194.5 |  | 14.2 | 13.7 | 4.0 | 213.0 | 190.0 |  | 5.15 | 2.50 |  | 245.0 | 545.0 |  | 92.0 | 1471 | 1.56 |
| 190 | 5.00 |  | 199.5 | -0.72 | 14.2 | 13.8 | 4.0 | 219.0 | 195.0 | +0.72 | 5.15 | 2.50 | 7.5 | 251.0 | 531.0 | 3.5 | 90.0 | 1510 | 1.56 |
| 195 | 5.00 |  | 204.5 |  | 14.2 | 13.8 | 4.0 | 229.0 | 200.0 |  | 5.15 | 2.50 |  | 258.0 | 516.0 |  | 87.0 | 1550 | 1.56 |
| 200 | 5.00 |  | 209.5 |  | 14.2 | 14.0 | 4.0 | 243.0 | 205.0 |  | 5.15 | 2.50 |  | 265.0 | 508.0 |  | 86.0 | 1565 | 1.56 |


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