

レデューサR48 入力工率・出力トルク表

| 呼称<br>減速比<br>(実減速比<br>$i$ ) | 入力軸<br>回転数 | 出力軸<br>回転数 | 呼称<br>入力工率     | 許容連続<br>出力トルク   | 許容最大<br>出力トルク     |
|-----------------------------|------------|------------|----------------|-----------------|-------------------|
|                             | rpm        | rpm        | $N_{IN}$<br>kw | $T_{2N}$<br>N·m | $T_{2max}$<br>N·m |
| 10<br>(10)                  | 1800       | 180        | 0.52           | 24.5            | 37.24             |
|                             | 1500       | 150        | 0.51           | 28.42           | 44.1              |
|                             | 1000       | 100        | 0.39           | 32.34           | 49.98             |
|                             | 750        | 75         | 0.33           | 35.28           | 53.9              |
|                             | 500        | 50         | 0.26           | 42.14           | 64.68             |
|                             | 300<br>150 | 30<br>15   | 0.19<br>0.12   | 49.0<br>58.8    | 75.46<br>91.14    |
| 20<br>(20)                  | 1800       | 90         | 0.25           | 21.56           | 33.32             |
|                             | 1500       | 75         | 0.23           | 23.52           | 36.26             |
|                             | 1000       | 50         | 0.18           | 26.46           | 40.18             |
|                             | 750        | 37.5       | 0.15           | 28.42           | 44.1              |
|                             | 500        | 25         | 0.12           | 33.32           | 50.96             |
|                             | 300<br>150 | 15<br>7.5  | 0.08<br>0.05   | 37.24<br>44.1   | 57.82<br>68.6     |
| 30<br>(30)                  | 1800       | 60         | 0.18           | 20.58           | 31.36             |
|                             | 1500       | 50         | 0.16           | 21.56           | 33.32             |
|                             | 1000       | 33.3       | 0.13           | 25.48           | 39.2              |
|                             | 750        | 25         | 0.12           | 28.42           | 44.1              |
|                             | 500        | 16.7       | 0.09           | 31.36           | 49.0              |
|                             | 300<br>150 | 10<br>5    | 0.06<br>0.04   | 35.28<br>41.16  | 54.88<br>63.7     |
| 50<br>(50)                  | 1800       | 36         | 0.1            | 15.68           | 24.5              |
|                             | 1500       | 30         | 0.09           | 16.66           | 25.48             |
|                             | 1000       | 20         | 0.08           | 19.6            | 30.38             |
|                             | 750        | 15         | 0.06           | 20.58           | 31.36             |
|                             | 500        | 10         | 0.05           | 23.52           | 36.26             |
|                             | 300<br>150 | 6<br>3     | 0.04<br>0.03   | 26.46<br>31.36  | 41.16<br>49.0     |

(1N=0.102kgf)

レデューサR65 入力工率・出力トルク表

| 呼称<br>減速比<br>(実減速比<br>$i$ ) | 入力軸<br>回転数             | 出力軸<br>回転数                    | 呼称<br>入力工率                       | 許容連続<br>出力トルク                    | 許容最大<br>出力トルク                    |
|-----------------------------|------------------------|-------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                             | rpm                    | rpm                           | $N_{IN}$<br>kw                   | $T_{2N}$<br>N·m                  | $T_{2max}$<br>N·m                |
| 5<br>(5.2)                  | 1800                   | 346                           | 3.55                             | 85.75                            | 210.7                            |
|                             | 1500                   | 288                           | 3.05                             | 94.08                            | 230.3                            |
|                             | 1000                   | 192                           | 2.35                             | 107.8                            | 279.3                            |
|                             | 750                    | 144                           | 2                                | 122.5                            | 318.5                            |
|                             | 500                    | 96.2                          | 1.7                              | 151.9                            | 362.6                            |
|                             | 300<br>150<br>60<br>10 | 57.7<br>28.8<br>11.5<br>1.92  | 1.35<br>1.05<br>0.57<br>0.105    | 200.9<br>303.8<br>396.9<br>406.7 | 411.6<br>460.6<br>509.6<br>539.0 |
| 10<br>(10.33)               | 1800                   | 174                           | 2.1                              | 102.9                            | 225.4                            |
|                             | 1500                   | 145                           | 1.9                              | 112.7                            | 245.0                            |
|                             | 1000                   | 96.8                          | 1.45                             | 127.4                            | 289.1                            |
|                             | 750                    | 72.6                          | 1.25                             | 147.0                            | 323.4                            |
|                             | 500                    | 48.4                          | 1.05                             | 181.3                            | 362.6                            |
|                             | 300<br>150<br>60<br>10 | 29<br>14.5<br>5.81<br>0.968   | 0.88<br>0.65<br>0.285<br>0.054   | 240.1<br>347.9<br>362.6<br>377.3 | 401.8<br>445.9<br>485.1<br>519.4 |
| 20<br>(20.5)                | 1800                   | 87.8                          | 1.4                              | 132.3                            | 245.0                            |
|                             | 1500                   | 73.2                          | 1.3                              | 147.0                            | 259.7                            |
|                             | 1000                   | 48.8                          | 1                                | 166.6                            | 303.8                            |
|                             | 750                    | 36.6                          | 0.88                             | 191.1                            | 328.3                            |
|                             | 500                    | 24.4                          | 0.76                             | 240.1                            | 367.5                            |
|                             | 300<br>150<br>60<br>10 | 14.6<br>7.32<br>2.93<br>0.488 | 0.54<br>0.31<br>0.145<br>0.029   | 274.4<br>298.9<br>333.2<br>352.8 | 396.9<br>416.5<br>431.2<br>441.0 |
| 31.5<br>(31)                | 1800                   | 58.1                          | 0.865                            | 112.7                            | 249.9                            |
|                             | 1500                   | 48.4                          | 0.79                             | 122.5                            | 269.5                            |
|                             | 1000                   | 32.3                          | 0.64                             | 137.2                            | 318.5                            |
|                             | 750                    | 24.2                          | 0.55                             | 156.8                            | 347.9                            |
|                             | 500                    | 16.1                          | 0.46                             | 191.1                            | 392.0                            |
|                             | 300<br>150<br>60<br>10 | 9.68<br>4.84<br>1.94<br>0.323 | 0.4<br>0.325<br>0.15<br>0.03     | 259.7<br>396.9<br>416.5<br>431.2 | 441.0<br>490.0<br>519.4<br>539.0 |
| 40<br>(41)                  | 1800                   | 43.9                          | 0.8                              | 132.3                            | 249.9                            |
|                             | 1500                   | 36.6                          | 0.74                             | 147.0                            | 269.5                            |
|                             | 1000                   | 24.4                          | 0.59                             | 171.5                            | 318.5                            |
|                             | 750                    | 18.3                          | 0.53                             | 205.8                            | 343.0                            |
|                             | 500                    | 12.2                          | 0.45                             | 240.1                            | 382.2                            |
|                             | 300<br>150<br>60<br>10 | 7.32<br>3.66<br>1.46<br>0.244 | 0.345<br>0.21<br>0.096<br>0.02   | 294.0<br>323.4<br>347.9<br>372.4 | 411.6<br>421.4<br>431.2<br>441.0 |
| 50<br>(51)                  | 1800                   | 35.3                          | 0.695                            | 137.2                            | 225.4                            |
|                             | 1500                   | 29.4                          | 0.64                             | 147.0                            | 240.1                            |
|                             | 1000                   | 19.6                          | 0.51                             | 171.5                            | 274.4                            |
|                             | 750                    | 14.7                          | 0.45                             | 191.1                            | 298.9                            |
|                             | 500                    | 9.8                           | 0.38                             | 230.3                            | 328.3                            |
|                             | 300<br>150<br>60<br>10 | 5.88<br>2.94<br>1.18<br>0.196 | 0.295<br>0.175<br>0.078<br>0.016 | 289.1<br>308.7<br>323.4<br>338.1 | 343.0<br>362.6<br>377.3<br>387.1 |

(1N=0.102kgf)

レデューサR80 入力工率・出力トルク表

| 呼称<br>減速比<br>(実減速比 <sub>i</sub> ) | 入力軸<br>回転数 | 出力軸<br>回転数 | 呼称<br>入力工率            | 許容連続<br>出力トルク          | 許容最大<br>出力トルク           |
|-----------------------------------|------------|------------|-----------------------|------------------------|-------------------------|
|                                   | rpm        | rpm        | N <sub>IN</sub><br>kw | T <sub>2N</sub><br>N·m | T <sub>max</sub><br>N·m |
| 5<br>(4.8)                        | 1800       | 375        | 5.45                  | 127.4                  | 357.7                   |
|                                   | 1500       | 313        | 4.85                  | 137.2                  | 396.9                   |
|                                   | 1000       | 208        | 3.75                  | 156.8                  | 480.2                   |
|                                   | 750        | 156        | 3.1                   | 176.4                  | 558.6                   |
|                                   | 500        | 104        | 2.55                  | 215.6                  | 646.8                   |
|                                   | 300        | 62.5       | 2.05                  | 279.3                  | 735.0                   |
| 10<br>(10.33)                     | 150        | 31.5       | 1.6                   | 426.3                  | 833.0                   |
|                                   | 60         | 12.5       | 1.1                   | 705.6                  | 882.0                   |
|                                   | 10         | 2.08       | 0.205                 | 744.8                  | 911.4                   |
|                                   | 1800       | 174        | 3.35                  | 166.6                  | 416.5                   |
|                                   | 1500       | 145        | 3.05                  | 181.3                  | 450.8                   |
|                                   | 1000       | 96.8       | 2.35                  | 210.7                  | 539.0                   |
| 20<br>(20.5)                      | 750        | 72.6       | 2.05                  | 235.2                  | 597.8                   |
|                                   | 500        | 48.4       | 1.65                  | 284.2                  | 676.2                   |
|                                   | 300        | 29         | 1.35                  | 377.3                  | 764.4                   |
|                                   | 150        | 14.5       | 1.1                   | 597.8                  | 852.6                   |
|                                   | 60         | 5.81       | 0.51                  | 656.6                  | 921.2                   |
|                                   | 10         | 0.968      | 0.094                 | 676.2                  | 940.8                   |
| 31.5<br>(31)                      | 1800       | 87.8       | 2.1                   | 196.0                  | 401.8                   |
|                                   | 1500       | 73.2       | 1.95                  | 220.5                  | 431.2                   |
|                                   | 1000       | 48.8       | 1.5                   | 249.9                  | 519.4                   |
|                                   | 750        | 36.6       | 1.35                  | 289.1                  | 568.4                   |
|                                   | 500        | 24.4       | 1.1                   | 357.7                  | 637.0                   |
|                                   | 300        | 14.6       | 0.91                  | 465.5                  | 715.4                   |
| 40<br>(41)                        | 150        | 7.32       | 0.57                  | 558.6                  | 735.0                   |
|                                   | 60         | 2.93       | 0.27                  | 617.4                  | 744.8                   |
|                                   | 10         | 0.488      | 0.052                 | 646.8                  | 754.6                   |
|                                   | 1800       | 58.1       | 1.35                  | 176.4                  | 445.9                   |
|                                   | 1500       | 48.4       | 1.25                  | 196.0                  | 480.2                   |
|                                   | 1000       | 32.3       | 1                     | 230.3                  | 568.4                   |
| 50<br>(51)                        | 750        | 24.2       | 0.87                  | 254.8                  | 637.0                   |
|                                   | 500        | 16.1       | 0.73                  | 308.7                  | 735.0                   |
|                                   | 300        | 9.68       | 0.61                  | 406.7                  | 832.2                   |
|                                   | 150        | 4.84       | 0.51                  | 646.8                  | 931.0                   |
|                                   | 60         | 1.94       | 0.255                 | 735.0                  | 960.4                   |
|                                   | 10         | 0.323      | 0.052                 | 764.4                  | 960.4                   |
| 50<br>(51)                        | 1800       | 43.9       | 1.25                  | 210.7                  | 411.6                   |
|                                   | 1500       | 36.6       | 1.15                  | 230.3                  | 445.9                   |
|                                   | 1000       | 24.4       | 0.89                  | 259.7                  | 529.2                   |
|                                   | 750        | 18.3       | 0.78                  | 294.0                  | 588.0                   |
|                                   | 500        | 12.2       | 0.65                  | 357.7                  | 666.4                   |
|                                   | 300        | 7.32       | 0.56                  | 470.4                  | 725.2                   |
| 50<br>(51)                        | 150        | 3.66       | 0.355                 | 568.4                  | 744.8                   |
|                                   | 60         | 1.46       | 0.18                  | 646.8                  | 754.6                   |
|                                   | 10         | 0.244      | 0.036                 | 676.2                  | 764.4                   |
|                                   | 1800       | 35.3       | 1.05                  | 215.6                  | 382.2                   |
|                                   | 1500       | 29.4       | 1                     | 249.9                  | 411.6                   |
|                                   | 1000       | 19.6       | 0.81                  | 284.2                  | 475.3                   |
| 50<br>(51)                        | 750        | 14.7       | 0.71                  | 318.5                  | 529.2                   |
|                                   | 500        | 9.8        | 0.6                   | 392.0                  | 597.8                   |
|                                   | 300        | 5.88       | 0.43                  | 436.1                  | 617.4                   |
|                                   | 150        | 2.94       | 0.28                  | 529.2                  | 646.8                   |
|                                   | 60         | 1.18       | 0.135                 | 578.2                  | 666.4                   |
|                                   | 10         | 0.196      | 0.027                 | 607.6                  | 686.0                   |

(1N=0.102kgf)

レデューサR100 入力工率・出力トルク表

| 呼称<br>減速比<br>(実減速比 <sub>i</sub> ) | 入力軸<br>回転数 | 出力軸<br>回転数 | 呼称<br>入力工率            | 許容連続<br>出力トルク          | 許容最大<br>出力トルク           |
|-----------------------------------|------------|------------|-----------------------|------------------------|-------------------------|
|                                   | rpm        | rpm        | N <sub>IN</sub><br>kw | T <sub>2N</sub><br>N·m | T <sub>max</sub><br>N·m |
| 5<br>(4.8)                        | 1800       | 375        | 14.6                  | 346.92                 | 710.5                   |
|                                   | 1500       | 313        | 12.9                  | 367.5                  | 774.2                   |
|                                   | 1000       | 208        | 10.4                  | 441.0                  | 960.4                   |
|                                   | 750        | 156        | 8.0                   | 457.66                 | 1078.0                  |
|                                   | 500        | 104        | 5.7                   | 490.0                  | 1274.0                  |
|                                   | 300        | 62.5       | 4.1                   | 563.5                  | 1470.0                  |
| 10<br>(10.33)                     | 150        | 31.5       | 2.8                   | 759.5                  | 1715.0                  |
|                                   | 60         | 12.5       | 1.7                   | 1102.5                 | 1911.0                  |
|                                   | 10         | 2.08       | 0.3                   | 1183.84                | 2009.0                  |
|                                   | 1800       | 174        | 7.5                   | 371.42                 | 735.0                   |
|                                   | 1500       | 145        | 6.8                   | 408.66                 | 803.6                   |
|                                   | 1000       | 96.8       | 6.0                   | 539.0                  | 980.0                   |
| 20<br>(20.5)                      | 750        | 72.6       | 5.1                   | 595.84                 | 1127.0                  |
|                                   | 500        | 48.4       | 3.7                   | 644.84                 | 1274.0                  |
|                                   | 300        | 29         | 2.7                   | 751.66                 | 1470.0                  |
|                                   | 150        | 14.5       | 1.7                   | 980.0                  | 1715.0                  |
|                                   | 60         | 5.81       | 0.8                   | 1021.16                | 1813.0                  |
|                                   | 10         | 0.968      | 0.1                   | 1061.34                | 1813.0                  |
| 31.5<br>(31)                      | 1800       | 87.8       | 4.2                   | 403.76                 | 754.6                   |
|                                   | 1500       | 73.2       | 4.0                   | 448.84                 | 823.2                   |
|                                   | 1000       | 48.8       | 3.7                   | 571.34                 | 980.0                   |
|                                   | 750        | 36.6       | 3.0                   | 661.5                  | 1127.0                  |
|                                   | 500        | 24.4       | 2.1                   | 693.84                 | 1225.0                  |
|                                   | 300        | 14.6       | 1.4                   | 735.0                  | 1274.0                  |
| 40<br>(41)                        | 150        | 7.32       | 0.9                   | 857.5                  | 1372.0                  |
|                                   | 60         | 2.93       | 0.4                   | 898.66                 | 1470.0                  |
|                                   | 10         | 0.488      | 0.07                  | 980.0                  | 1519.0                  |
|                                   | 1800       | 58.1       | 3.7                   | 497.84                 | 808.5                   |
|                                   | 1500       | 48.4       | 3.3                   | 531.16                 | 882.0                   |
|                                   | 1000       | 32.3       | 2.7                   | 629.16                 | 1078.0                  |
| 50<br>(51)                        | 750        | 24.2       | 2.1                   | 644.84                 | 1225.0                  |
|                                   | 500        | 16.1       | 1.6                   | 686.0                  | 1372.0                  |
|                                   | 300        | 9.68       | 1.2                   | 800.66                 | 1617.0                  |
|                                   | 150        | 4.84       | 0.8                   | 1102.5                 | 1813.0                  |
|                                   | 60         | 1.94       | 0.4                   | 1183.84                | 1862.0                  |
|                                   | 10         | 0.323      | 0.07                  | 1225.0                 | 1862.0                  |
| 50<br>(51)                        | 1800       | 43.9       | 2.7                   | 465.5                  | 803.6                   |
|                                   | 1500       | 36.6       | 2.5                   | 506.66                 | 862.4                   |
|                                   | 1000       | 24.4       | 2.1                   | 644.84                 | 1029.0                  |
|                                   | 750        | 18.3       | 1.8                   | 710.5                  | 1127.0                  |
|                                   | 500        | 12.2       | 1.3                   | 751.66                 | 1274.0                  |
|                                   | 300        | 7.32       | 0.9                   | 791.84                 | 1372.0                  |
| 50<br>(51)                        | 150        | 3.66       | 0.6                   | 938.84                 | 1421.0                  |
|                                   | 60         | 1.46       | 0.3                   | 1021.16                | 1470.0                  |
|                                   | 10         | 0.244      | 0.05                  | 1061.34                | 1519.0                  |
|                                   | 1800       | 36         | 2.1                   | 428.26                 | 705.6                   |
|                                   | 1500       | 30         | 1.9                   | 465.5                  | 764.4                   |
|                                   | 1000       | 20         | 1.7                   | 588.0                  | 921.2                   |
| 50<br>(51)                        | 750        | 15         | 1.4                   | 620.34                 | 1029.0                  |
|                                   | 500        | 10         | 1.0                   | 644.84                 | 1127.0                  |
|                                   | 300        | 6          | 0.7                   | 727.16                 | 1176.0                  |
|                                   | 150        | 3          | 0.4                   | 816.34                 | 1225.0                  |
|                                   | 60         | 1.2        | 0.2                   | 898.66                 | 1274.0                  |
|                                   | 10         | 0.2        | 0.04                  | 938.84                 | 1323.0                  |

(1N=0.102kgf)

レデューサR125 入力工率・出力トルク表

| 呼称<br>減速比<br>(実減速比 <sub>i</sub> ) | 入力軸<br>回転数 | 出力軸<br>回転数 | 呼称<br>入力工率            | 許容連続<br>出力トルク          | 許容最大<br>出力トルク            |
|-----------------------------------|------------|------------|-----------------------|------------------------|--------------------------|
|                                   | rpm        | rpm        | N <sub>IN</sub><br>kw | T <sub>2N</sub><br>N·m | T <sub>2max</sub><br>N·m |
| 5<br>(4.8)                        | 1800       | 375        | 23.3                  | 555.66                 | 1176.0                   |
|                                   | 1500       | 313        | 20.8                  | 595.84                 | 1323.0                   |
|                                   | 1000       | 208        | 17.5                  | 750.68                 | 1666.0                   |
|                                   | 750        | 156        | 13.7                  | 767.34                 | 1911.0                   |
|                                   | 500        | 104        | 9.6                   | 808.5                  | 2303.0                   |
|                                   | 300        | 62.5       | 6.7                   | 938.84                 | 2744.0                   |
| 10<br>(10.33)                     | 1800       | 174        | 12.5                  | 629.16                 | 1274.0                   |
|                                   | 1500       | 145        | 11.7                  | 693.84                 | 1421.0                   |
|                                   | 1000       | 96.8       | 10.4                  | 938.84                 | 1764.0                   |
|                                   | 750        | 72.6       | 8.7                   | 1021.16                | 2009.0                   |
|                                   | 500        | 48.4       | 6.2                   | 1102.5                 | 2352.0                   |
|                                   | 300        | 29         | 4.4                   | 1266.16                | 2744.0                   |
| 20<br>(20.5)                      | 1800       | 87.8       | 7.2                   | 697.76                 | 1323.0                   |
|                                   | 1500       | 73.2       | 6.8                   | 791.84                 | 1470.0                   |
|                                   | 1000       | 48.8       | 6.0                   | 1021.16                | 1813.0                   |
|                                   | 750        | 36.6       | 5.4                   | 1102.5                 | 2009.0                   |
|                                   | 500        | 24.4       | 4.0                   | 1347.5                 | 2352.0                   |
|                                   | 300        | 14.6       | 2.6                   | 1388.66                | 2548.0                   |
| 31.5<br>(30)                      | 1800       | 60         | 6.4                   | 816.34                 | 1421.0                   |
|                                   | 1500       | 50         | 5.7                   | 898.66                 | 1568.0                   |
|                                   | 1000       | 33.3       | 4.6                   | 1061.34                | 1911.0                   |
|                                   | 750        | 25         | 3.6                   | 1102.5                 | 2205.0                   |
|                                   | 500        | 16.7       | 2.7                   | 1143.66                | 2548.0                   |
|                                   | 300        | 10         | 2.0                   | 1347.5                 | 2989.0                   |
| 40<br>(41)                        | 1800       | 43.9       | 4.6                   | 812.42                 | 1421.0                   |
|                                   | 1500       | 36.6       | 4.2                   | 898.66                 | 1568.0                   |
|                                   | 1000       | 24.4       | 3.7                   | 1143.66                | 1862.0                   |
|                                   | 750        | 18.3       | 3.2                   | 1306.34                | 2107.0                   |
|                                   | 500        | 12.2       | 2.4                   | 1388.66                | 2450.0                   |
|                                   | 300        | 7.32       | 1.7                   | 1511.16                | 2744.0                   |
| 50<br>(51)                        | 1800       | 36         | 3.5                   | 731.08                 | 1225.0                   |
|                                   | 1500       | 30         | 3.2                   | 808.5                  | 1372.0                   |
|                                   | 1000       | 20         | 2.8                   | 1026.06                | 1666.0                   |
|                                   | 750        | 15         | 2.5                   | 1183.84                | 1911.0                   |
|                                   | 500        | 10         | 1.8                   | 1225.0                 | 2156.0                   |
|                                   | 300        | 6          | 1.2                   | 1347.5                 | 2303.0                   |

(1N=0.102kgf)

レデューサR160 入力工率・出力トルク表

| 呼称<br>減速比<br>(実減速比 <sub>i</sub> ) | 入力軸<br>回転数 | 出力軸<br>回転数 | 呼称<br>入力工率            | 許容連続<br>出力トルク          | 許容最大<br>出力トルク            |
|-----------------------------------|------------|------------|-----------------------|------------------------|--------------------------|
|                                   | rpm        | rpm        | N <sub>IN</sub><br>kw | T <sub>2N</sub><br>N·m | T <sub>2max</sub><br>N·m |
| 5<br>(4.8)                        | 1800       | 375        | 41.6                  | 980.0                  | 1871.8                   |
|                                   | 1500       | 313        | 36.6                  | 1058.4                 | 2077.6                   |
|                                   | 1000       | 208        | 29.5                  | 1264.2                 | 2646.0                   |
|                                   | 750        | 156        | 23.3                  | 1303.4                 | 3057.6                   |
|                                   | 500        | 104        | 16.2                  | 1381.8                 | 3675.0                   |
|                                   | 300        | 62.5       | 11.2                  | 1548.4                 | 4488.4                   |
| 10<br>(10.33)                     | 1800       | 174        | 22.5                  | 1097.6                 | 1999.2                   |
|                                   | 1500       | 145        | 20.4                  | 1225.0                 | 2205.0                   |
|                                   | 1000       | 96.8       | 18.3                  | 1626.8                 | 2773.4                   |
|                                   | 750        | 72.6       | 14.5                  | 1715.0                 | 3185.0                   |
|                                   | 500        | 48.4       | 10.4                  | 1871.8                 | 3792.6                   |
|                                   | 300        | 29         | 7.3                   | 2116.8                 | 4566.8                   |
| 20<br>(20.5)                      | 1800       | 87.8       | 12.9                  | 1264.2                 | 2156.0                   |
|                                   | 1500       | 73.2       | 12.0                  | 1421.0                 | 2361.8                   |
|                                   | 1000       | 48.8       | 10.8                  | 1832.6                 | 2940.0                   |
|                                   | 750        | 36.6       | 9.5                   | 2116.8                 | 3302.6                   |
|                                   | 500        | 24.4       | 6.8                   | 2283.4                 | 3831.8                   |
|                                   | 300        | 14.6       | 4.9                   | 2646.0                 | 4165.0                   |
| 31.5<br>(31)                      | 1800       | 58.1       | 11.25                 | 1548.4                 | 2322.6                   |
|                                   | 1500       | 48.4       | 10                    | 1626.8                 | 2528.4                   |
|                                   | 1000       | 32.3       | 7.5                   | 1832.6                 | 3096.8                   |
|                                   | 750        | 24.2       | 6                     | 1991.0                 | 3508.4                   |
|                                   | 500        | 16.1       | 4.4                   | 1999.2                 | 4243.4                   |
|                                   | 300        | 9.68       | 3.1                   | 2283.4                 | 5056.8                   |
| 40<br>(41)                        | 1800       | 43.9       | 8.3                   | 1509.2                 | 2205.0                   |
|                                   | 1500       | 36.6       | 7.5                   | 1626.8                 | 2450.0                   |
|                                   | 1000       | 24.4       | 6.7                   | 2116.8                 | 3057.6                   |
|                                   | 750        | 18.3       | 5.4                   | 2205.0                 | 3508.4                   |
|                                   | 500        | 12.2       | 4                     | 2361.8                 | 4076.8                   |
|                                   | 300        | 7.32       | 3                     | 2812.6                 | 4566.8                   |
| 50<br>(51)                        | 1800       | 36         | 6.1                   | 1347.5                 | 2038.4                   |
|                                   | 1500       | 30         | 5.8                   | 1470.0                 | 2244.2                   |
|                                   | 1000       | 20         | 5.1                   | 1911.0                 | 2773.4                   |
|                                   | 750        | 15         | 4.6                   | 2244.2                 | 3136.0                   |
|                                   | 500        | 10         | 3.4                   | 2401.0                 | 3586.8                   |
|                                   | 300        | 6          | 2.3                   | 2695.0                 | 3831.8                   |

(1N=0.102kgf)