

# SAPPHIRE<sup>®</sup>

DIAMOND CHAIN COMPANY



GUÍA DE PRODUCTOS SAPPHIRE DIAMOND  
PARA YACIMIENTOS PETROLÍFEROS



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*Toda vocación es perfecta, cuando se ejerce plenamente.*

OLIVER WENDELL HOLMES

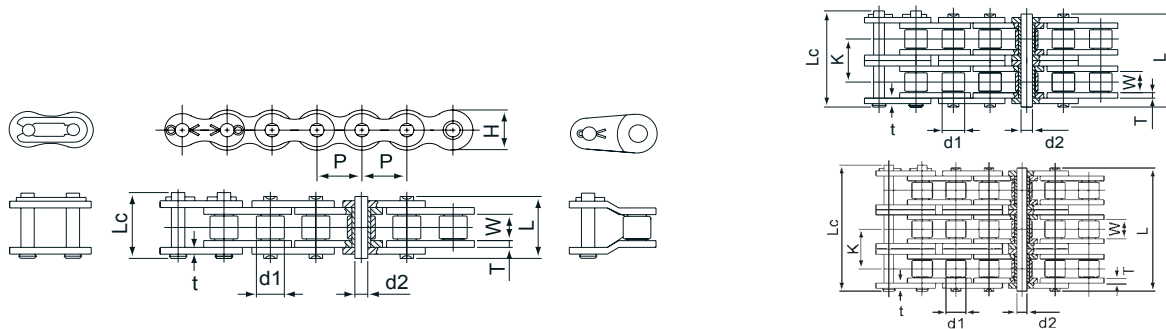


En Diamond Chain Company, la vocación que implican el diseño y la fabricación de la cadena de rodillos con mayor rendimiento del mundo se ejerce plenamente todos los días, a cargo de expertos técnicos apasionados que consideran que el trabajo de sus vidas es que usted alcance el éxito. Es esta intensidad de enfoque en la que algunos de los inventores más importantes del mundo confiaron para brindar las cadenas de transmisión que necesitaban para transformar el mundo. Tanto para los hermanos Wright y Henry Ford, como para los líderes mundiales contemporáneos, la cadena de rodillos Diamond® es la más confiable cuando de rendimiento se trata.



# CADENA DE LA SERIE ISO / NORMA BRITÁNICA

La cadena de la serie ISO / norma británica de Sapphire se fabrica de acuerdo con las dimensiones métricas de la Organización Internacional para la Estandarización (ISO 606), las normas británicas (BS 228) y DIN 8187.



Dimensiones en mm

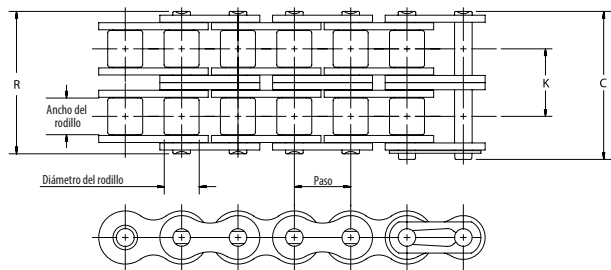
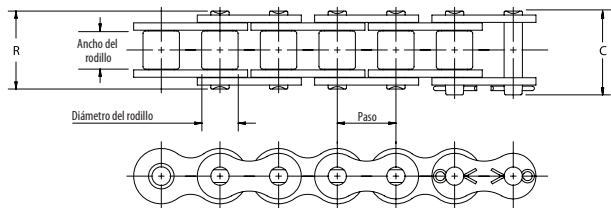
| ISO/norma británica | Paso P mm | Ancho del rodillo Ancho mín. W mm | Diámetro del rodillo d1 máx. mm | Diámetro externo del pasador d2 máx. mm | Grosor interno de la cacha de corredera T mm | Grosor externo de la cacha de corredera t mm | Longitud del pasador Lc máx. mm | Longitud del pasador L máx. mm | K mm   | KG Por M | Promedio de a la tracción N |
|---------------------|-----------|-----------------------------------|---------------------------------|---|--|--|---------------------------------|--------------------------------|--------|----------|-----------------------------|
| 05B-1               | 8.467     | 2.997                             | 5.004                           | 2.311                                   | 0.838  | 0.838  | 11.709                          | 8.611                          | ....   | 0.22     | 4893                        |
| *06B-1              | 9.525     | 5.715                             | 6.350                           | 3.277                                   | 1.270  | 0.991  | 16.789                          | 13.487                         | ....   | 0.45     | 8896                        |
| *06B-2              | 9.525     | 5.715                             | 6.350                           | 3.277                                   | 1.270  | 0.991  | 27.102                          | 23.800                         | 10.236 | 0.80     | 16903                       |
| 08B-1               | 12.700    | 7.747                             | 8.509                           | 4.445                                   | 1.524  | 1.524  | 20.904                          | 16.993                         | ....   | 0.74     | 17793                       |
| 08B-2               | 12.700    | 7.747                             | 8.509                           | 4.445                                   | 1.524  | 1.524  | 34.900                          | 30.988                         | 13.919 | 1.40     | 31138                       |
| 08B-3               | 12.700    | 7.747                             | 8.509                           | 4.445                                   | 1.524  | 1.524  | 46.203                          | 44.501                         | 13.919 | 1.99     | 44482                       |
| 10B-1               | 15.875    | 9.652                             | 10.160                          | 5.080                                   | 1.524  | 1.524  | 23.698                          | 19.609                         | ....   | 0.95     | 22241                       |
| 10B-2               | 15.875    | 9.652                             | 10.160                          | 5.080                                   | 1.524  | 1.524  | 40.310                          | 36.195                         | 16.586 | 1.88     | 44482                       |
| 10B-3               | 15.875    | 9.652                             | 10.160                          | 5.080                                   | 1.524  | 1.524  | 54.000                          | 52.121                         | 16.586 | 2.80     | 66723                       |
| 12B-1               | 19.050    | 11.684                            | 12.065                          | 5.715                                   | 1.803  | 1.803  | 27.305                          | 22.708                         | ....   | 1.19     | 28913                       |
| 12B-2               | 19.050    | 11.684                            | 12.065                          | 5.715                                   | 1.803  | 1.803  | 46.812                          | 42.189                         | 19.456 | 2.34     | 57827                       |
| 12B-3               | 19.050    | 11.684                            | 12.065                          | 5.715                                   | 1.803  | 1.803  | 63.195                          | 61.214                         | 19.456 | 3.79     | 86740                       |
| 16B-1               | 25.400    | 17.018                            | 15.875                          | 8.280                                   | 3.988  | 3.200  | 38.887                          | 33.503                         | ....   | 2.72     | 60051                       |
| 16B-2               | 25.400    | 17.018                            | 15.875                          | 8.280                                   | 3.988  | 3.200  | 73.406                          | 67.996                         | 32.004 | 5.37     | 106757                      |
| 16B-3               | 25.400    | 17.018                            | 15.875                          | 8.280                                   | 3.988  | 3.200  | 101.702                         | 99.720                         | 32.004 | 7.98     | 160136                      |
| 20B-1               | 31.750    | 19.558                            | 19.050                          | 10.185                                  | 4.699  | 4.699  | 49.301                          | 43.205                         | ....   | 3.88     | 93413                       |
| 20B-2               | 31.750    | 19.558                            | 19.050                          | 10.185                                  | 4.699  | 4.699  | 85.801                          | 79.705                         | 36.449 | 7.66     | 169032                      |
| 20B-3               | 31.750    | 19.558                            | 19.050                          | 10.185                                  | 4.699  | 4.699  | 116.205                         | 113.081                        | 36.449 | 11.46    | 249100                      |
| 24B-1               | 38.100    | 25.400                            | 25.400                          | 14.630                                  | 6.299  | 6.299  | 59.995                          | 53.391                         | ....   | 7.07     | 160136                      |
| 24B-2               | 38.100    | 25.400                            | 25.400                          | 14.630                                  | 6.299  | 6.299  | 108.407                         | 101.803                        | 48.362 | 13.97    | 280238                      |
| 24B-3               | 38.100    | 25.400                            | 25.400                          | 14.630                                  | 6.299  | 6.299  | 154.889                         | 150.165                        | 48.362 | 21.76    | 424805                      |
| 28B-1               | 44.450    | 27.940                            | 27.940                          | 15.900                                  | 7.798  | 7.798  | 72.390                          | 65.024                         | ....   | 9.45     | 200170                      |
| 28B-2               | 44.450    | 27.940                            | 27.940                          | 15.900                                  | 7.798  | 7.798  | 131.394                         | 124.003                        | 59.538 | 18.80    | 360306                      |
| 28B-3               | 44.450    | 27.940                            | 27.940                          | 15.900                                  | 7.798  | 7.798  | 189.052                         | 184.048                        | 59.538 | 28.20    | 529338                      |
| 32B-1               | 50.800    | 30.988                            | 29.210                          | 17.805                                  | 7.290  | 7.290  | 75.184                          | 67.310                         | ....   | 10.25    | 249100                      |
| 32B-2               | 50.800    | 30.988                            | 29.210                          | 17.805                                  | 7.290  | 7.290  | 133.909                         | 125.984                        | 58.547 | 20.11    | 449270                      |
| 32B-3               | 50.800    | 30.988                            | 29.210                          | 17.805                                  | 7.290  | 7.290  | 186.893                         | 181.305                        | 58.547 | 29.91    | 671681                      |
| 40B-1               | 63.500    | 38.100                            | 48.260                          | 22.885                                  | 8.788  | 8.788  | 92.608                          | 82.601                         | ....   | 16.35    | 355858                      |
| 40B-2               | 63.500    | 38.100                            | 48.260                          | 22.885                                  | 8.788  | 8.788  | 164.008                         | 154.000                        | 72.288 | 32.00    | 631647                      |
| 40B-3               | 63.500    | 38.100                            | 48.260                          | 22.885                                  | 8.788  | 8.788  | 228.956                         | 223.164                        | 72.288 | 47.76    | 949695                      |

\*Barra lateral recta.

# CADENA DE LA SERIE ASME / ANSI

## DE HILERA SIMPLE Y MÚLTIPLE

Las cadenas de la serie estándar de Sapphire se fabrican de acuerdo con las normas ASME / ANSI B29.1.



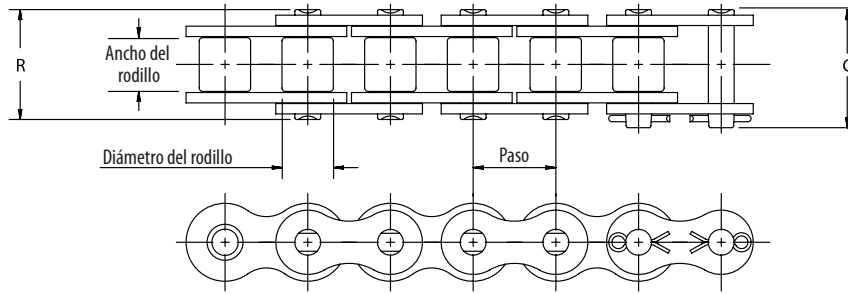
Dimensiones en mm

| Número ASME/ANSI | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | Diámetro del pasador mm | Grosor de la cacha de corredera mm | C mm   | R mm   | K mm  | KG Por M | Resistencia mínima a la tracción N |
|------------------|---------|----------------------|-------------------------|-------------------------|------------------------------------|--------|--------|-------|----------|------------------------------------|
| 25               | 6.35    | 3.18                 | 3.30 *                  | 2.29                    | 0.76                               | 9.40   | 8.64   | ....  | 0.13     | 3470                               |
| 35               | 9.53    | 4.76                 | 5.08 *                  | 3.58                    | 1.27                               | 14.22  | 12.70  | ....  | 0.31     | 7829                               |
| 35-2             | 9.53    | 4.76                 | 5.08 *                  | 3.58                    | 1.27                               | 24.38  | 22.86  | 10.13 | 0.67     | 15658                              |
| 40               | 12.70   | 7.94                 | 7.92                    | 3.96                    | 1.52                               | 18.29  | 17.02  | ....  | 0.61     | 13901                              |
| 40-2             | 12.70   | 7.94                 | 7.92                    | 3.96                    | 1.52                               | 32.77  | 31.50  | 14.38 | 1.19     | 27801                              |
| 40-3             | 12.70   | 7.94                 | 7.92                    | 3.96                    | 1.52                               | 46.99  | 45.72  | 14.38 | 1.79     | 41702                              |
| 41               | 12.70   | 6.35                 | 7.77                    | 3.58                    | 1.27                               | 16.51  | 14.48  | ....  | 0.39     | 6672                               |
| 50               | 15.88   | 9.53                 | 10.16                   | 5.08                    | 2.03                               | 22.61  | 21.08  | ....  | 1.01     | 21707                              |
| 50-2             | 15.88   | 9.53                 | 10.16                   | 5.08                    | 2.03                               | 40.64  | 39.37  | 18.11 | 1.96     | 43415                              |
| 50-3             | 15.88   | 9.53                 | 10.16                   | 5.08                    | 2.03                               | 58.67  | 57.40  | 18.11 | 2.95     | 65122                              |
| 60               | 19.05   | 12.70                | 11.91                   | 5.94                    | 2.39                               | 28.19  | 26.42  | ....  | 1.47     | 31271                              |
| 60-2             | 19.05   | 12.70                | 11.91                   | 5.94                    | 2.39                               | 51.05  | 49.28  | 22.78 | 2.90     | 62542                              |
| 60-3             | 19.05   | 12.70                | 11.91                   | 5.94                    | 2.39                               | 73.91  | 72.14  | 22.78 | 4.29     | 93813                              |
| 80               | 25.40   | 15.88                | 15.88                   | 7.92                    | 3.18                               | 36.58  | 33.53  | ....  | 2.57     | 55603                              |
| 80-2             | 25.40   | 15.88                | 15.88                   | 7.92                    | 3.18                               | 65.79  | 62.74  | 29.29 | 5.02     | 111206                             |
| 100              | 31.75   | 19.05                | 19.05                   | 9.53                    | 3.96                               | 43.94  | 40.89  | ....  | 3.74     | 86874                              |
| 100-2            | 31.75   | 19.05                | 19.05                   | 9.53                    | 3.96                               | 79.76  | 76.71  | 35.76 | 7.31     | 173748                             |
| 120              | 38.10   | 25.40                | 22.23                   | 11.10                   | 4.75                               | 54.36  | 50.80  | ....  | 5.49     | 125106                             |
| 120-2            | 38.10   | 25.40                | 22.23                   | 11.10                   | 4.75                               | 99.82  | 96.27  | 45.44 | 10.94    | 250212                             |
| 140              | 44.45   | 25.40                | 25.40                   | 12.70                   | 5.56                               | 58.67  | 54.36  | ....  | 7.44     | 170278                             |
| 140-2            | 44.45   | 25.40                | 25.40                   | 12.70                   | 5.56                               | 107.70 | 103.38 | 48.87 | 14.36    | 340556                             |
| 160              | 50.80   | 31.75                | 28.58                   | 14.27                   | 6.35                               | 69.34  | 64.52  | ....  | 9.72     | 222411                             |
| 160-2            | 50.80   | 31.75                | 28.58                   | 14.27                   | 6.35                               | 128.02 | 123.19 | 58.55 | 19.09    | 444822                             |
| 180              | 57.15   | 35.72                | 35.71                   | 17.45                   | 7.14                               | 80.01  | 73.15  | ....  | 13.48    | 281483                             |
| 180-2            | 57.15   | 35.72                | 35.71                   | 17.45                   | 7.14                               | 149.10 | 139.95 | 65.84 | 26.06    | 563487                             |
| 200              | 63.50   | 38.10                | 39.67                   | 19.84                   | 7.92                               | 87.38  | 79.25  | ....  | 15.85    | 347517                             |
| 200-2            | 63.50   | 38.10                | 39.67                   | 19.84                   | 7.92                               | 159.00 | 150.88 | 71.55 | 32.00    | 695035                             |
| 240              | 76.20   | 47.63                | 47.63                   | 23.80                   | 9.53                               | 103.12 | 94.49  | ....  | 24.41    | 500425                             |

\*Las cadenas no tienen rodillos; la dimensión mostrada es del diámetro del cojinete de polea.

## CADENA DE LA SERIE PESADA

Las cadenas de la serie pesada de Sapphire se fabrican de acuerdo con las normas ASME / ANSI B29.1.



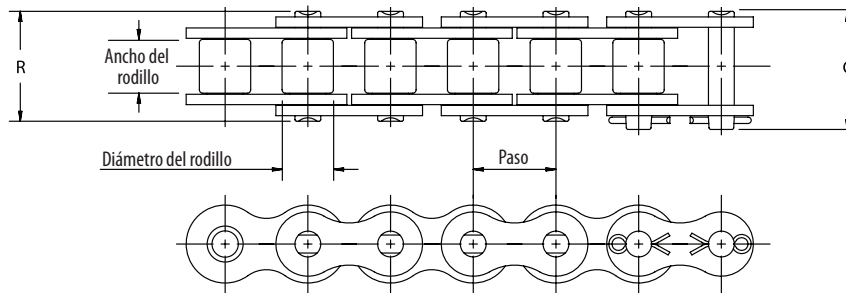
Dimensiones en mm

| Número ASME/ANSI | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | Diámetro del pasador mm | Grosor de la cacha de corredera mm | C mm  | R mm  | KG Por M | Resistencia mínima a la tracción N |
|------------------|---------|----------------------|-------------------------|-------------------------|------------------------------------|-------|-------|----------|------------------------------------|
| 50H              | 15.88   | 9.53                 | 10.16                   | 5.08                    | 2.39                               | 23.62 | 21.84 | 1.26     | 26182                              |
| 60H              | 19.05   | 12.70                | 11.91                   | 5.94                    | 3.18                               | 31.50 | 29.72 | 1.76     | 37810                              |
| 80H              | 25.40   | 15.88                | 15.88                   | 7.92                    | 3.96                               | 39.88 | 36.83 | 3.01     | 64499                              |
| 100H             | 31.75   | 19.05                | 19.05                   | 9.53                    | 4.75                               | 47.24 | 44.20 | 4.20     | 106757                             |
| 120H             | 38.10   | 25.40                | 22.23                   | 11.10                   | 5.56                               | 57.66 | 54.10 | 6.07     | 151240                             |
| 140H             | 44.45   | 25.40                | 25.40                   | 12.70                   | 6.35                               | 61.98 | 57.91 | 8.04     | 204618                             |
| 160H             | 50.80   | 31.75                | 28.58                   | 14.27                   | 7.14                               | 72.64 | 68.07 | 10.46    | 257997                             |
| 200H             | 63.50   | 38.10                | 39.67                   | 19.84                   | 9.53                               | 97.54 | 87.12 | 19.91    | 347517                             |

NOTA: Las cadenas de la serie pesada no son necesariamente más fuertes que las de la serie estándar, pero el material de la cacha de corredera más grueso brinda un aumento de resistencia a la fatiga para las transmisiones sujetas a fuerzas de choque pesadas.

## CADENA DE LA SERIE NO ESTÁNDAR

Las cadenas de la serie no estándar de Sapphire se fabricaron con anterioridad a la adopción de las normas ASME / ANSI y sus dimensiones son no estándar.



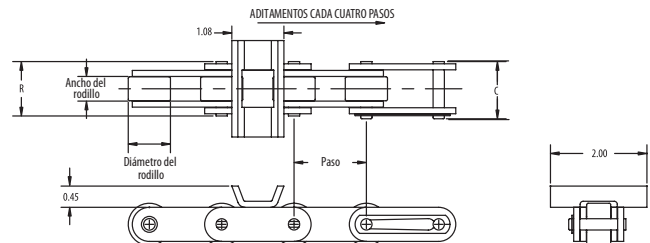
Dimensiones en mm

| Número de la cadena | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | Diámetro del pasador mm | Grosor de la cacha de corredera mm | C mm  | R mm  | KG Por M | Resistencia mínima a la tracción N |
|---------------------|---------|----------------------|-------------------------|-------------------------|------------------------------------|-------|-------|----------|------------------------------------|
| 65 x 1/8            | 12.70   | 3.18                 | 7.77                    | 3.58                    | 1.02                               | 11.68 | 10.67 | 0.27     | 9119                               |

## CADENA PARA APLICACIONES ESPECIALES

La cadena de la serie de aplicación especial de Sapphire está disponible para una variedad de aplicaciones, incluidas la agricultura y los deportes de motor.

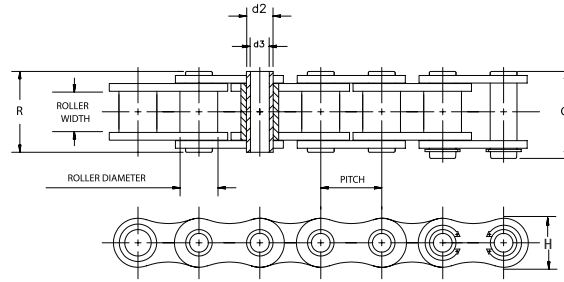
## CADENA PARA MÓDULOS DE ALGODÓN



Dimensiones en mm

| Número ASME/ANSI | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | Diámetro del pasador mm | C mm   | R mm  | Grosor de la cacha de corredera mm | Resistencia mínima a la tracción N |
|------------------|---------|----------------------|-------------------------|-------------------------|--------|-------|------------------------------------|------------------------------------|
| C2062H CM        | 38.100  | 12.700               | 22.225                  | 5.944                   | 29.972 | 3.175 | 31.750                             | 31271                              |

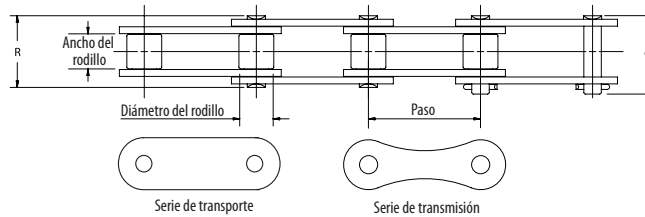
# PASADOR HUECO



Dimensiones en mm

| Número ASME/ANSI | Paso mm | Ancho del rodillo mm | Diámetro del rodillo* mm | Diámetro externo del pasador d2 mm | Diámetro interno del pasador d3 mm | Altura de la cacha de corredera H mm | Grosor de la cacha de corredera mm | C mm   | R mm  | KG Por M | Resistencia mínima a la tracción N |
|------------------|---------|----------------------|--------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|--------|-------|----------|------------------------------------|
| 40HP             | 12.700  | 7.938                | 7.925                    | 5.639                              | 3.988                              | 11.989                               | 1.499                              | 17.602 | 0.580 | 0.580    | 9808                               |
| 50HP             | 15.875  | 9.525                | 10.160                   | 7.036                              | 5.131                              | 15.088                               | 2.007                              | 21.895 | 0.948 | 0.948    | 18144                              |
| 60HP             | 19.050  | 12.700               | 11.913                   | 8.306                              | 5.994                              | 18.009                               | 2.388                              | 26.797 | 1.397 | 1.397    | 25497                              |
| 80HP             | 25.400  | 15.875               | 15.875                   | 11.405                             | 8.052                              | 24.003                               | 3.200                              | 33.807 | 2.525 | 2.525    | 49033                              |
| C2040HP          | 25.400  | 0.785                | 7.925                    | 5.639                              | 3.988                              | 11.989                               | 1.499                              | 17.602 | 0.454 | 0.454    | 9808                               |
| C2050HP          | 31.750  | 0.940                | 10.160                   | 7.214                              | 5.131                              | 15.011                               | 2.007                              | 21.895 | 0.744 | 0.744    | 18144                              |
| C2060HP          | 38.100  | 12.573               | 11.913                   | 8.306                              | 5.994                              | 16.993                               | 2.388                              | 26.797 | 1.384 | 1.384    | 25497                              |
| C2062HP HP       | 38.100  | 12.573               | 22.225                   | 8.306                              | 5.994                              | 16.993                               | 3.200                              | 26.797 | 1.935 | 1.935    | 25497                              |
| C2080HP          | 50.800  | 15.748               | 15.875                   | 11.405                             | 9.398                              | 24.003                               | 3.200                              | 33.807 | 1.801 | 1.801    | 49033                              |
| C2082H HP        | 50.800  | 15.748               | 28.575                   | 11.405                             | 8.052                              | 24.003                               | 3.962                              | 33.807 | 2.351 | 2.351    | 49033                              |

\*La cadena no tiene rodillos; la dimensión mostrada es del diámetro del cojinete de polea.



# CADENA PARA LA AGRICULTURA

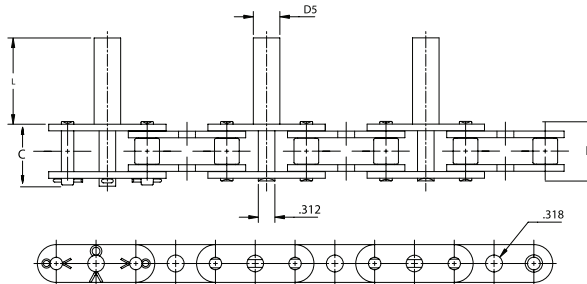
Dimensiones en mm

| Número ASME/ANSI     | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | Diámetro del pasador mm | Grosor de la cacha de corredera mm | C mm   | R mm   | KG Por M | Promedio de resistencia a la tracción N |
|----------------------|---------|----------------------|-------------------------|-------------------------|------------------------------------|--------|--------|----------|---|
| Serie de transporte  |         |                      |                         |                         |                                    |        |        |          |   |
| CA550                | 41.402  | 20.241               | 16.662                  | 7.188                   | 2.667                              | 39.688 | 34.925 | 1.935    | 53935                                   |
| CA555                | 41.402  | 12.700               | 16.662                  | 7.188                   | 3.175                              | 31.750 | 30.163 | 1.801    | 58841                                   |
| CA557                | 41.402  | 20.241               | 17.780                  | 8.001                   | 3.175                              | 40.481 | 37.306 | 2.560    | 73551                                   |
| CA620                | 42.012  | 25.003               | 17.678                  | 7.188                   | 3.175                              | 46.831 | 41.672 | 2.336    | 58841                                   |
| C2060H               | 38.100  | 12.700               | 11.913                  | 5.969                   | 3.175                              | 31.750 | 30.163 | 1.563    | 43148                                   |
| Serie de transmisión |         |                      |                         |                         |                                    |        |        |          |   |
| A550                 | 41.402  | 20.241               | 16.662                  | 7.188                   | 2.667                              | 39.688 | 34.925 | 1.637    | 53935                                   |
| A620                 | 42.012  | 25.003               | 17.678                  | 7.188                   | 3.175                              | 46.831 | 41.672 | 2.054    | 58841                                   |

# CADENA PARA CÍTRICOS

Dimensiones en mm

| Tipo | D5   | "L"   |
|------|------|-------|
| 1    | 1/2  | 1.625 |
| 2    | 9/16 | 1.625 |



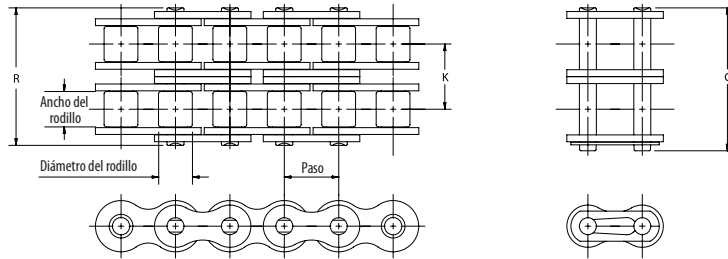
| Número ASME/ANSI | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | Diámetro del pasador mm | Grosor de la cacha de corredera mm | C mm   | R mm   | KG Por M* | Resistencia mínima a la tracción N |
|------------------|---------|----------------------|-------------------------|-------------------------|------------------------------------|--------|--------|-----------|------------------------------------|
| C2060H C         | 38.100  | 12.573               | 11.913                  | 5.944                   | 3.175                              | 31.750 | 29.972 | 1.563     | 31271                              |
| C2060HSSC        | 38.100  | 12.573               | 11.913                  | 5.944                   | 3.175                              | 31.750 | 29.972 | 1.533     | 25488                              |

\*Aproximado; el peso variará de acuerdo con el pasador D5 que se necesite.

## CADENA PARA APLICACIONES ESPECIALES

La cadena de la serie de aplicación especial de Sapphire está disponible para una variedad de aplicaciones, incluidas la agricultura y los deportes de motor.

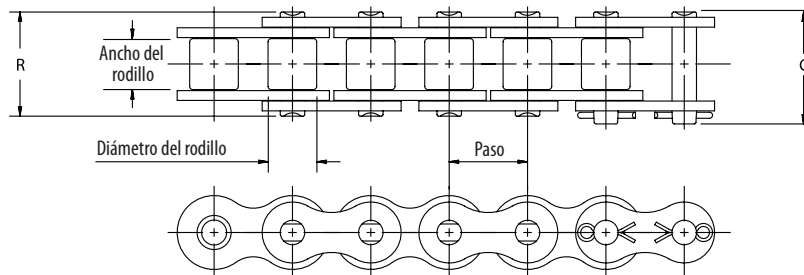
### CADENA DE TRACCIÓN



Dimensiones en mm

| Número ASME/ANSI | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | C mm   | R mm    | K mm   | Pasos de longitud | KG Por M |
|------------------|---------|----------------------|-------------------------|--------|---------|--------|-------------------|----------|
| D4012            | 12.700  | 7.925                | 7.925                   | 14.376 | 304.800 | 14.376 | 12                | 0.610    |
| D4016            | 12.700  | 7.925                | 7.925                   | 14.376 | 406.400 | 14.376 | 16                | 0.818    |
| D5016            | 15.875  | 9.525                | 10.160                  | 18.110 | 406.400 | 18.110 | 16                | 1.667    |
| D5018            | 15.875  | 9.525                | 10.160                  | 18.110 | 457.200 | 18.110 | 18                | 1.875    |
| D6018            | 19.050  | 12.700               | 11.913                  | 22.784 | 457.200 | 22.784 | 18                | 3.214    |
| D6020            | 19.050  | 12.700               | 11.913                  | 22.784 | 508.000 | 22.784 | 20                | 3.572    |
| D6022            | 19.050  | 12.700               | 11.913                  | 22.784 | 558.800 | 22.784 | 22                | 3.929    |
| D8018            | 25.400  | 15.875               | 15.875                  | 29.286 | 457.200 | 29.286 | 18                | 7.441    |
| D8020            | 25.400  | 15.875               | 15.875                  | 29.286 | 508.000 | 29.286 | 20                | 8.274    |
| D10018           | 31.750  | 19.050               | 19.050                  | 35.763 | 457.200 | 35.763 | 18                | 13.751   |
| D10020           | 31.750  | 19.050               | 19.050                  | 35.763 | 508.000 | 35.763 | 20                | 15.328   |
| D12018           | 38.100  | 25.400               | 22.225                  | 45.441 | 457.200 | 45.441 | 18                | 24.108   |
| D12022           | 38.100  | 25.400               | 22.225                  | 45.441 | 558.800 | 45.441 | 22                | 29.466   |

### CADENA PARA VEHÍCULOS DE AVENTURA Y TODO TERRENO



Dimensiones en mm

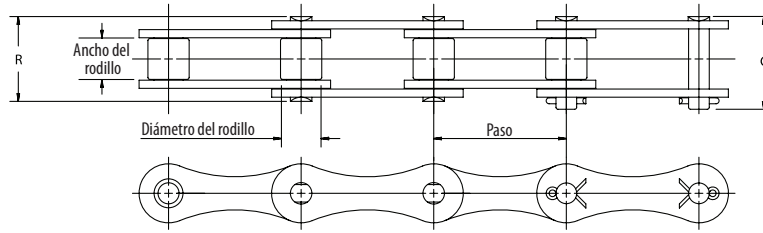
| Número ASME/ANSI | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | Diámetro del pasador mm | Grosor de la cacha de corredera mm | C mm    | R mm    | KG Por M | Promedio de resistencia a la tracción N |
|------------------|---------|----------------------|-------------------------|-------------------------|------------------------------------|---------|---------|----------|---|
| 219H             | 7.7724  | 5.0038               | 4.5974                  | 2.9972                  | 1.1938                             | ....    | 11.9888 | 0.298    | 7651                                    |
| 219H BP          | 7.7724  | 5.0038               | 4.5974                  | 2.9972                  | 1.1938                             | ....    | 11.9888 | 0.298    | 7651                                    |
| 420              | 12.7    | 6.35                 | 7.7724                  | 3.9624                  | 1.524                              | 1.66116 | 14.8082 | 0.402    | 18104                                   |
| 428              | 12.7    | 7.9375               | 8.509                   | 4.4196                  | 1.524                              | 18.1102 | 16.7894 | 0.667    | 18683                                   |
| 428H             | 12.7    | 7.9375               | 8.509                   | 4.4196                  | 1.778                              | 19.4564 | 18.8976 | 0.798    | 18683                                   |
| 520              | 15.875  | 6.35                 | 10.16                   | 5.08                    | 2.032                              | 19.558  | 18.034  | 0.939    | 29358                                   |
| 520H             | 15.875  | 6.35                 | 10.16                   | 5.08                    | 2.3876                             | 20.32   | 18.796  | 1.216    | 29358                                   |
| 530              | 15.875  | 15.875               | 10.16                   | 5.08                    | 2.032                              | 22.606  | 21.082  | 1.058    | 29358                                   |
| 530H             | 15.875  | 15.875               | 10.16                   | 5.08                    | 2.3876                             | 23.368  | 21.844  | 1.335    | 29358                                   |



## CADENA DE RODILLOS DE PASO DOBLE

Las cadenas de paso doble de Sapphire se fabrican de acuerdo con las normas ASME / ANSI B29.1.

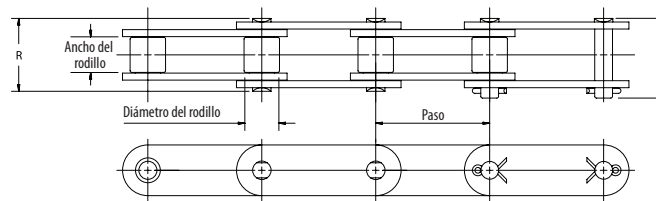
## CADENA DE RODILLOS DE TRANSMISIÓN DE ENERGÍA



Dimensiones en mm

| Número ASME/ANSI | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | Diámetro del pasador mm | Grosor de la cacha de corredera mm | C mm  | R mm  | KG Por M | Resistencia mínima a la tracción N |
|------------------|---------|----------------------|-------------------------|-------------------------|------------------------------------|-------|-------|----------|------------------------------------|
| 2040             | 25.40   | 7.94                 | 7.92                    | 3.96                    | 1.52                               | 19.30 | 17.27 | 0.42     | 13901                              |
| 2050             | 31.75   | 9.53                 | 10.16                   | 5.08                    | 2.03                               | 23.37 | 21.34 | 0.77     | 21707                              |
| 2060             | 38.10   | 12.70                | 11.91                   | 5.94                    | 2.39                               | 28.19 | 26.67 | 1.07     | 31271                              |

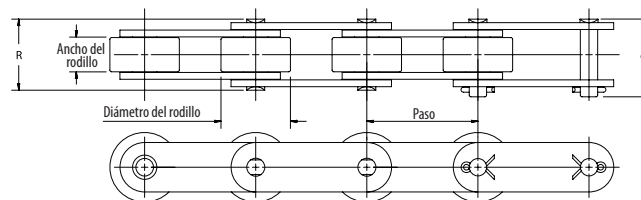
## CADENA DE RODILLOS TRANSPORTADORA



## RODILLO DE DIÁMETRO ESTÁNDAR

Dimensiones en mm

| Número ASME/ANSI | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | Diámetro del pasador mm | Grosor de la cacha de corredera mm | C mm  | R mm  | KG Por M | Resistencia mínima a la tracción N |
|------------------|---------|----------------------|-------------------------|-------------------------|------------------------------------|-------|-------|----------|------------------------------------|
| C2040            | 25.40   | 7.94                 | 7.92                    | 3.96                    | 1.52                               | 19.30 | 17.27 | 0.51     | 13901                              |
| C2050            | 31.75   | 9.53                 | 10.16                   | 5.08                    | 2.03                               | 23.37 | 21.34 | 0.86     | 21707                              |
| C2060H           | 38.10   | 12.70                | 11.91                   | 5.94                    | 3.18                               | 31.75 | 29.97 | 1.56     | 31271                              |
| C2080H           | 50.80   | 15.88                | 15.88                   | 7.92                    | 3.96                               | 39.88 | 36.83 | 2.08     | 55603                              |



## RODILLO DE DIÁMETRO SOBREDIMENSIONADO

Dimensiones en mm

| Número ASME/ANSI | Paso mm | Ancho del rodillo mm | Diámetro del rodillo mm | Diámetro del pasador mm | Grosor de la cacha de corredera mm | C mm  | R mm  | KG Por M | Resistencia mínima a la tracción N |
|------------------|---------|----------------------|-------------------------|-------------------------|------------------------------------|-------|-------|----------|------------------------------------|
| C2042            | 25.40   | 7.94                 | 15.88                   | 3.96                    | 1.52                               | 19.30 | 17.27 | 0.74     | 13901                              |
| C2052            | 31.75   | 9.53                 | 19.05                   | 5.08                    | 2.03                               | 23.37 | 21.34 | 1.21     | 21707                              |
| C2062H           | 38.10   | 12.70                | 22.23                   | 5.94                    | 3.18                               | 31.75 | 29.97 | 2.11     | 31271                              |

# TABLA DE CONVERSIÓN DE LA LONGITUD DE LA CADENA DE PASOS A METROS

| Paso de la cadena—mm    |      |      |      |      |      |       |       |       |       |       |       |       |       |
|-------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cant. de pasos mm       | 0.64 | 0.95 | 1.27 | 1.59 | 1.91 | 2.54  | 3.18  | 3.81  | 4.45  | 5.08  | 5.72  | 6.35  | 7.62  |
| Longitud de la cadena—M |      |      |      |      |      |       |       |       |       |       |       |       |       |
| 1                       | 0.05 | 0.08 | 0.10 | 0.13 | 0.15 | 0.20  | 0.25  | 0.33  | 0.38  | 0.43  | 0.48  | 0.53  | 0.64  |
| 2                       | 0.10 | 0.15 | 0.20 | 0.25 | 0.41 | 0.43  | 0.53  | 0.64  | 0.74  | 0.84  | 0.97  | 1.07  | 1.27  |
| 3                       | 0.15 | 0.23 | 0.33 | 0.41 | 0.25 | 0.64  | 0.79  | 0.97  | 1.12  | 1.27  | 1.42  | 1.60  | 1.91  |
| 4                       | 0.20 | 0.33 | 0.43 | 0.53 | 0.64 | 0.84  | 1.07  | 1.27  | 1.47  | 1.70  | 1.91  | 2.11  | 2.54  |
| 5                       | 0.25 | 0.41 | 0.53 | 0.66 | 0.79 | 1.07  | 1.32  | 1.60  | 1.85  | 2.11  | 2.39  | 2.64  | 3.18  |
| 6                       | 0.33 | 0.48 | 0.64 | 0.79 | 0.97 | 1.27  | 1.60  | 1.91  | 2.24  | 2.54  | 2.87  | 3.18  | 3.81  |
| 7                       | 0.38 | 0.56 | 0.74 | 0.91 | 1.12 | 1.47  | 1.85  | 2.24  | 2.59  | 2.97  | 3.33  | 3.71  | 4.45  |
| 8                       | 0.43 | 0.64 | 0.84 | 1.07 | 1.27 | 1.70  | 2.11  | 2.54  | 2.97  | 3.38  | 3.81  | 4.24  | 5.08  |
| 9                       | 0.48 | 0.71 | 0.97 | 1.19 | 1.42 | 1.91  | 2.39  | 2.87  | 3.33  | 3.81  | 4.29  | 4.78  | 5.72  |
| 10                      | 0.53 | 0.79 | 1.07 | 1.32 | 1.60 | 2.11  | 2.64  | 3.18  | 3.71  | 4.24  | 4.78  | 5.28  | 6.35  |
| 11                      | 0.58 | 0.86 | 1.17 | 1.27 | 1.75 | 2.34  | 2.92  | 3.51  | 4.06  | 4.65  | 5.23  | 5.82  | 6.99  |
| 12                      | 0.64 | 0.97 | 1.27 | 1.60 | 1.91 | 2.54  | 3.18  | 3.81  | 4.45  | 5.08  | 5.72  | 6.35  | 7.62  |
| 13                      | 0.69 | 1.04 | 1.37 | 1.73 | 2.06 | 2.74  | 3.43  | 4.14  | 4.83  | 5.51  | 6.20  | 6.88  | 8.26  |
| 14                      | 0.74 | 1.12 | 1.47 | 1.85 | 2.24 | 2.97  | 3.71  | 4.45  | 5.18  | 5.92  | 6.68  | 7.42  | 8.89  |
| 15                      | 0.79 | 1.19 | 1.60 | 1.98 | 2.39 | 3.18  | 3.96  | 4.78  | 5.56  | 6.35  | 7.14  | 7.95  | 9.53  |
| 16                      | 0.84 | 1.27 | 1.70 | 2.11 | 2.54 | 3.38  | 4.24  | 5.08  | 5.92  | 6.78  | 7.62  | 8.46  | 10.16 |
| 17                      | 0.89 | 1.35 | 1.80 | 2.26 | 2.69 | 3.61  | 4.50  | 5.41  | 6.30  | 7.19  | 8.10  | 8.99  | 10.80 |
| 18                      | 0.97 | 1.42 | 1.91 | 2.39 | 2.87 | 3.81  | 4.78  | 5.72  | 6.68  | 7.62  | 8.59  | 9.53  | 11.43 |
| 19                      | 1.02 | 1.50 | 2.01 | 2.51 | 3.02 | 4.01  | 5.03  | 6.05  | 7.04  | 8.05  | 9.04  | 10.06 | 12.07 |
| 20                      | 1.07 | 1.60 | 2.11 | 2.64 | 3.18 | 4.24  | 5.28  | 6.35  | 7.42  | 8.46  | 9.53  | 10.59 | 12.70 |
| 21                      | 1.12 | 1.68 | 2.24 | 2.77 | 3.33 | 4.45  | 5.56  | 6.68  | 7.77  | 8.89  | 10.01 | 11.13 | 13.34 |
| 22                      | 1.17 | 1.75 | 2.34 | 2.92 | 3.51 | 4.65  | 5.82  | 6.99  | 8.15  | 9.32  | 10.49 | 11.63 | 13.97 |
| 23                      | 1.22 | 1.83 | 2.44 | 3.05 | 3.66 | 4.88  | 6.10  | 7.32  | 8.51  | 9.73  | 10.95 | 12.17 | 14.61 |
| 24                      | 1.27 | 1.91 | 2.54 | 3.18 | 3.81 | 5.08  | 6.35  | 7.62  | 8.89  | 10.16 | 11.43 | 12.70 | 15.24 |
| 25                      | 1.32 | 1.98 | 2.64 | 3.30 | 3.96 | 5.28  | 6.60  | 7.95  | 9.27  | 10.59 | 11.91 | 13.23 | 15.88 |
| 26                      | 1.37 | 2.06 | 2.74 | 3.43 | 4.14 | 5.51  | 6.88  | 8.26  | 9.63  | 11.00 | 12.40 | 13.77 | 16.51 |
| 27                      | 1.42 | 2.13 | 2.87 | 3.58 | 4.29 | 5.72  | 7.14  | 8.59  | 10.01 | 11.43 | 12.85 | 14.30 | 17.15 |
| 28                      | 1.47 | 2.24 | 2.97 | 3.71 | 4.45 | 5.92  | 7.44  | 8.89  | 10.36 | 11.86 | 13.34 | 14.81 | 17.78 |
| 29                      | 1.52 | 2.31 | 3.07 | 3.84 | 4.67 | 6.15  | 7.67  | 9.22  | 10.74 | 12.27 | 13.82 | 15.34 | 18.42 |
| 30                      | 1.60 | 2.39 | 3.18 | 4.06 | 4.78 | 6.35  | 7.95  | 9.53  | 11.13 | 12.70 | 13.61 | 15.88 | 19.05 |
| 31                      | 1.65 | 2.46 | 3.28 | 4.09 | 4.93 | 6.55  | 8.20  | 9.86  | 11.48 | 13.13 | 14.76 | 16.41 | 19.69 |
| 32                      | 1.70 | 2.54 | 3.38 | 4.24 | 5.08 | 6.78  | 8.46  | 10.16 | 11.86 | 13.54 | 15.24 | 16.94 | 20.32 |
| 33                      | 1.75 | 2.62 | 3.51 | 4.37 | 5.23 | 6.99  | 8.64  | 10.49 | 12.22 | 13.97 | 15.72 | 17.48 | 20.96 |
| 34                      | 1.80 | 2.69 | 3.61 | 4.50 | 5.41 | 7.19  | 8.99  | 10.80 | 12.60 | 14.40 | 16.21 | 17.98 | 21.59 |
| 35                      | 1.85 | 2.77 | 3.71 | 4.62 | 5.56 | 7.42  | 9.27  | 11.13 | 12.95 | 14.81 | 16.66 | 18.52 | 22.23 |
| 36                      | 1.91 | 2.87 | 3.81 | 4.50 | 5.72 | 7.62  | 9.53  | 11.43 | 13.34 | 15.24 | 17.15 | 19.05 | 22.86 |
| 37                      | 1.96 | 2.95 | 3.91 | 4.90 | 5.87 | 7.82  | 9.78  | 11.76 | 13.72 | 15.67 | 17.63 | 19.58 | 23.50 |
| 38                      | 2.01 | 3.02 | 4.01 | 5.03 | 6.05 | 8.05  | 10.06 | 12.07 | 14.07 | 16.08 | 18.11 | 20.12 | 24.13 |
| 39                      | 2.06 | 3.10 | 4.14 | 5.16 | 6.20 | 8.26  | 10.31 | 12.40 | 14.45 | 16.51 | 18.57 | 20.65 | 24.77 |
| 40                      | 2.11 | 3.18 | 4.24 | 5.28 | 6.35 | 8.46  | 10.59 | 12.70 | 14.81 | 16.94 | 19.05 | 21.16 | 25.40 |
| 41                      | 2.16 | 3.25 | 4.34 | 5.44 | 6.50 | 8.69  | 10.85 | 13.03 | 15.19 | 17.35 | 19.53 | 21.69 | 26.04 |
| 42                      | 2.24 | 3.33 | 4.45 | 5.56 | 6.68 | 8.89  | 11.13 | 13.34 | 15.57 | 17.78 | 20.02 | 22.23 | 26.67 |
| 43                      | 2.29 | 3.40 | 4.55 | 5.72 | 6.83 | 9.09  | 11.38 | 13.67 | 15.93 | 18.21 | 20.47 | 22.76 | 27.31 |
| 44                      | 2.34 | 3.51 | 4.65 | 5.82 | 6.99 | 9.32  | 11.63 | 13.97 | 16.31 | 18.62 | 20.96 | 23.29 | 27.94 |
| 45                      | 2.39 | 3.58 | 4.78 | 5.94 | 7.14 | 9.53  | 11.91 | 14.30 | 16.66 | 19.05 | 21.44 | 23.83 | 28.58 |
| 46                      | 2.44 | 3.66 | 4.88 | 6.10 | 7.32 | 9.73  | 12.17 | 14.61 | 17.04 | 19.48 | 21.92 | 24.33 | 29.21 |
| 47                      | 2.49 | 3.73 | 4.98 | 6.22 | 7.47 | 9.96  | 12.45 | 14.94 | 17.40 | 19.89 | 22.38 | 24.87 | 29.85 |
| 48                      | 2.54 | 3.81 | 5.08 | 6.35 | 7.62 | 10.16 | 12.70 | 15.24 | 17.78 | 20.32 | 22.86 | 25.40 | 30.48 |
| 49                      | 2.59 | 3.89 | 5.18 | 6.48 | 7.77 | 10.36 | 12.95 | 15.57 | 18.16 | 20.75 | 23.34 | 25.93 | 31.12 |
| 50                      | 2.64 | 3.96 | 5.28 | 6.60 | 7.95 | 10.59 | 13.23 | 15.88 | 18.52 | 21.16 | 23.83 | 26.47 | 31.75 |

# TABLA DE CONVERSIÓN DE LA LONGITUD DE LA CADENA DE PASOS A METROS

| Paso de la cadena—mm    |      |      |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cant. de pasos mm       | 0.64 | 0.95 | 1.27  | 1.59  | 1.91  | 2.54  | 3.18  | 3.81  | 4.45  | 5.08  | 5.72  | 6.35  | 7.62  |
| Longitud de la cadena—M |      |      |       |       |       |       |       |       |       |       |       |       |       |
| 51                      | 2.69 | 4.04 | 5.41  | 6.76  | 8.10  | 10.80 | 13.49 | 16.21 | 18.90 | 21.59 | 24.28 | 27.00 | 32.39 |
| 52                      | 2.74 | 4.14 | 5.51  | 6.88  | 8.26  | 11.00 | 13.77 | 16.51 | 19.25 | 22.02 | 24.77 | 4.65  | 33.02 |
| 53                      | 2.79 | 4.22 | 5.61  | 7.01  | 8.41  | 11.23 | 14.02 | 16.84 | 19.63 | 22.43 | 25.25 | 28.04 | 33.66 |
| 54                      | 2.87 | 4.29 | 5.72  | 7.14  | 8.59  | 11.43 | 14.30 | 17.15 | 20.02 | 22.86 | 25.73 | 28.58 | 34.29 |
| 55                      | 2.92 | 4.37 | 5.82  | 7.26  | 8.74  | 11.63 | 14.55 | 17.48 | 20.37 | 23.29 | 26.19 | 29.11 | 34.93 |
| 56                      | 2.97 | 4.45 | 5.92  | 7.42  | 8.89  | 11.86 | 14.81 | 17.78 | 20.75 | 23.70 | 26.67 | 29.64 | 35.56 |
| 57                      | 3.02 | 4.52 | 6.05  | 7.54  | 9.04  | 12.07 | 15.09 | 18.11 | 21.11 | 24.13 | 27.15 | 30.18 | 36.20 |
| 58                      | 3.07 | 4.60 | 6.15  | 7.67  | 9.22  | 12.27 | 15.34 | 18.42 | 21.49 | 24.56 | 27.64 | 30.68 | 36.83 |
| 59                      | 3.12 | 4.67 | 6.25  | 7.80  | 9.37  | 12.50 | 15.62 | 18.75 | 21.84 | 24.97 | 28.09 | 31.22 | 37.47 |
| 60                      | 3.18 | 4.78 | 6.35  | 7.95  | 9.53  | 12.70 | 15.88 | 19.05 | 22.23 | 25.40 | 28.58 | 31.75 | 38.10 |
| 61                      | 3.23 | 4.85 | 6.45  | 8.08  | 9.68  | 12.90 | 16.13 | 19.38 | 22.61 | 25.83 | 29.06 | 32.28 | 38.74 |
| 62                      | 3.28 | 4.93 | 6.55  | 8.20  | 9.86  | 13.13 | 16.41 | 19.69 | 22.96 | 26.24 | 29.54 | 32.82 | 39.37 |
| 63                      | 3.33 | 5.00 | 6.68  | 8.33  | 10.01 | 13.34 | 16.66 | 20.02 | 23.34 | 26.67 | 30.00 | 33.35 | 40.01 |
| 64                      | 3.38 | 5.08 | 6.78  | 8.46  | 10.16 | 13.54 | 16.94 | 20.32 | 23.70 | 27.10 | 30.48 | 33.86 | 40.64 |
| 65                      | 3.43 | 5.16 | 6.88  | 8.61  | 10.31 | 13.77 | 17.20 | 20.65 | 24.08 | 27.51 | 30.96 | 34.39 | 41.28 |
| 66                      | 3.51 | 5.23 | 6.99  | 8.74  | 10.49 | 13.97 | 17.48 | 20.96 | 24.46 | 27.94 | 31.45 | 34.93 | 41.91 |
| 67                      | 3.56 | 5.31 | 7.09  | 8.86  | 10.64 | 14.17 | 17.73 | 21.29 | 24.82 | 28.37 | 31.90 | 35.46 | 42.55 |
| 68                      | 3.61 | 5.41 | 7.19  | 8.99  | 10.80 | 14.40 | 17.98 | 21.59 | 25.20 | 28.78 | 32.39 | 35.99 | 43.18 |
| 69                      | 3.66 | 5.49 | 7.32  | 9.12  | 10.95 | 14.61 | 18.26 | 21.92 | 25.55 | 29.21 | 32.87 | 36.53 | 43.82 |
| 70                      | 3.71 | 5.56 | 7.42  | 9.27  | 11.13 | 14.81 | 18.52 | 22.23 | 25.93 | 29.64 | 33.35 | 37.03 | 44.45 |
| 71                      | 3.76 | 5.64 | 7.52  | 9.40  | 11.28 | 15.04 | 18.80 | 22.56 | 26.29 | 30.05 | 33.81 | 37.57 | 45.09 |
| 72                      | 3.81 | 5.72 | 7.62  | 9.53  | 11.43 | 15.24 | 19.05 | 22.86 | 26.67 | 30.48 | 34.29 | 38.10 | 45.72 |
| 73                      | 3.86 | 5.79 | 7.72  | 9.65  | 11.58 | 15.44 | 19.30 | 23.19 | 27.05 | 30.91 | 34.77 | 38.63 | 46.36 |
| 74                      | 3.91 | 5.87 | 7.82  | 9.78  | 11.76 | 15.67 | 19.58 | 23.50 | 27.41 | 31.32 | 35.26 | 39.17 | 46.99 |
| 75                      | 3.96 | 5.94 | 7.95  | 9.93  | 11.91 | 15.88 | 19.84 | 23.83 | 27.79 | 31.75 | 35.71 | 39.70 | 47.63 |
| 76                      | 4.01 | 6.05 | 8.05  | 10.06 | 12.07 | 16.08 | 20.12 | 24.13 | 28.14 | 32.18 | 36.20 | 40.21 | 48.26 |
| 77                      | 4.06 | 6.12 | 8.15  | 10.19 | 12.22 | 16.31 | 20.37 | 24.46 | 28.52 | 32.59 | 36.68 | 40.74 | 48.90 |
| 78                      | 4.14 | 6.20 | 8.26  | 10.31 | 12.40 | 16.51 | 20.65 | 24.77 | 28.91 | 33.02 | 37.16 | 41.28 | 49.53 |
| 79                      | 4.19 | 6.27 | 8.36  | 10.44 | 12.55 | 16.71 | 20.90 | 25.10 | 29.26 | 33.45 | 37.62 | 41.81 | 50.17 |
| 80                      | 4.24 | 6.35 | 8.46  | 10.59 | 12.70 | 16.94 | 21.16 | 25.40 | 29.64 | 33.86 | 38.10 | 42.34 | 50.80 |
| 81                      | 4.29 | 6.43 | 8.59  | 10.72 | 12.85 | 17.15 | 21.44 | 25.73 | 30.00 | 34.29 | 38.58 | 42.88 | 51.44 |
| 82                      | 4.34 | 6.50 | 8.69  | 10.85 | 13.03 | 17.35 | 21.69 | 26.04 | 30.38 | 34.72 | 39.07 | 43.38 | 52.07 |
| 83                      | 4.39 | 6.58 | 8.79  | 10.97 | 13.18 | 17.58 | 21.97 | 26.37 | 30.73 | 35.13 | 39.52 | 43.92 | 52.71 |
| 84                      | 4.45 | 6.68 | 8.89  | 11.13 | 13.34 | 17.78 | 22.23 | 26.67 | 31.12 | 35.56 | 40.01 | 44.45 | 53.34 |
| 85                      | 4.50 | 6.76 | 8.99  | 11.25 | 13.49 | 17.98 | 22.48 | 27.00 | 31.50 | 35.99 | 40.49 | 44.98 | 53.98 |
| 86                      | 4.55 | 6.83 | 9.09  | 11.38 | 13.67 | 18.21 | 22.76 | 27.31 | 31.85 | 36.40 | 40.97 | 45.52 | 54.61 |
| 87                      | 4.60 | 6.91 | 9.22  | 11.51 | 13.82 | 18.42 | 23.01 | 27.64 | 32.23 | 36.83 | 41.43 | 46.05 | 55.25 |
| 88                      | 4.65 | 6.99 | 9.32  | 11.63 | 13.97 | 18.62 | 23.29 | 27.94 | 32.59 | 37.26 | 41.91 | 46.56 | 55.88 |
| 89                      | 4.70 | 7.06 | 9.42  | 11.79 | 14.12 | 18.85 | 23.55 | 28.27 | 32.97 | 37.67 | 42.39 | 47.09 | 56.52 |
| 90                      | 4.78 | 7.14 | 9.53  | 11.91 | 14.30 | 19.05 | 23.83 | 28.58 | 33.35 | 38.10 | 42.88 | 47.63 | 57.15 |
| 91                      | 4.83 | 7.21 | 9.63  | 12.04 | 14.45 | 19.25 | 24.08 | 28.91 | 33.71 | 38.53 | 43.33 | 48.16 | 57.79 |
| 92                      | 4.88 | 7.32 | 9.73  | 12.17 | 14.61 | 19.48 | 24.33 | 29.21 | 34.09 | 38.94 | 43.82 | 48.69 | 58.42 |
| 93                      | 4.93 | 7.39 | 9.86  | 12.29 | 14.76 | 19.69 | 24.61 | 29.54 | 34.44 | 39.37 | 44.30 | 49.23 | 59.06 |
| 94                      | 4.98 | 7.47 | 9.96  | 12.45 | 14.94 | 19.89 | 24.87 | 29.85 | 34.82 | 39.80 | 44.78 | 49.73 | 59.69 |
| 95                      | 5.03 | 7.54 | 10.06 | 12.57 | 15.09 | 20.12 | 25.15 | 30.18 | 35.18 | 40.21 | 45.24 | 50.27 | 60.33 |
| 96                      | 5.08 | 7.62 | 10.16 | 12.70 | 15.24 | 20.32 | 25.40 | 30.48 | 35.56 | 40.64 | 45.72 | 50.80 | 60.96 |
| 97                      | 5.13 | 7.70 | 10.26 | 12.83 | 15.39 | 20.52 | 25.65 | 30.81 | 35.94 | 41.07 | 46.20 | 51.33 | 61.60 |
| 98                      | 5.18 | 7.77 | 10.36 | 12.95 | 15.57 | 20.75 | 25.93 | 31.12 | 36.30 | 41.48 | 46.69 | 51.87 | 62.23 |
| 99                      | 5.23 | 7.85 | 10.49 | 13.11 | 15.72 | 20.96 | 26.19 | 31.45 | 36.68 | 41.91 | 47.14 | 52.40 | 62.87 |
| 100                     | 5.28 | 7.95 | 10.59 | 13.23 | 15.88 | 21.16 | 26.47 | 31.75 | 37.03 | 42.34 | 47.63 | 52.91 | 63.50 |

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