

# TABLAS DE PESOS TUBERÍA DE POLIETILENO

ALTA DENSIDAD (HDPE/PEAD)

**PESOS POR METRO DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)**

| Diámetro nominal externo (milímetros) | PN 3.2                                      | PN 4   | PN 5   | PN 6   | PN 8    | PN 10   | PN 12.5 | PN 16   | PN 20   | PN 25   |
|---------------------------------------|---|--------|--------|--------|---------|---------|---------|---------|---------|---------|
|                                       | 46 PSI                                      | 58 PSI | 72 PSI | 87 PSI | 116 PSI | 145 PSI | 181 PSI | 232 PSI | 290 PSI | 362 PSI |
|                                       | <b>Peso nominal en kilogramos por metro</b> |        |        |        |         |         |         |         |         |         |
| 16                                    |   |        |        |        |         |         |         | 0.084   | 0.094   | 0.116   |
| 20                                    |   |        |        |        |         |         | 0.107   | 0.121   | 0.152   | 0.168   |
| 25                                    |   |        |        |        |         | 0.137   | 0.156   | 0.197   | 0.225   | 0.261   |
| 32                                    |   |        |        |        | 0.179   | 0.212   | 0.260   | 0.305   | 0.362   | 0.429   |
| 40                                    |   |        |        | 0.227  | 0.269   | 0.331   | 0.401   | 0.477   | 0.566   | 0.666   |
| 50                                    |   |        | 0.287  | 0.341  | 0.421   | 0.511   | 0.623   | 0.742   | 0.888   | 1.033   |
| 63                                    |   |        | 0.451  | 0.537  | 0.671   | 0.818   | 0.990   | 1.185   | 1.396   | 1.645   |
| 75                                    |   |        | 0.624  | 0.767  | 0.947   | 1.160   | 1.384   | 1.670   | 1.989   | 2.332   |
| 90                                    |   |        | 0.904  | 1.100  | 1.363   | 1.666   | 2.002   | 2.408   | 2.852   | 3.358   |
| 110                                   |   |        | 1.326  | 1.656  | 2.037   | 2.463   | 2.985   | 3.587   | 4.277   | 5.008   |
| 125                                   |   |        | 1.722  | 2.131  | 2.597   | 3.180   | 3.865   | 4.638   | 5.507   | 6.469   |
| 140                                   |   |        | 2.169  | 2.666  | 3.262   | 3.987   | 4.825   | 5.824   | 6.922   | 8.115   |
| 160                                   |   |        | 2.846  | 3.500  | 4.267   | 5.219   | 6.336   | 7.591   | 9.026   | 10.590  |
| 180                                   |   |        | 3.565  | 4.399  | 5.406   | 6.617   | 8.008   | 9.592   | 11.409  | 13.394  |
| 200                                   |   |        | 4.419  | 5.455  | 6.681   | 8.130   | 9.875   | 11.873  | 14.115  | 16.528  |
| 225                                   |   |        | 5.554  | 6.904  | 8.462   | 10.325  | 12.512  | 15.027  | 17.851  | 20.940  |
| 250                                   |   |        | 6.888  | 8.456  | 10.389  | 12.718  | 15.399  | 18.494  | 22.027  | 25.824  |
| 280                                   |   |        | 8.600  | 10.662 | 13.050  | 15.948  | 19.300  | 23.232  | 27.628  | 32.405  |
| 315                                   | 7.062                                       | 8.838  | 10.939 | 13.430 | 16.537  | 20.204  | 24.446  | 29.394  | 34.975  | 41.005  |
| 355                                   | 8.992                                       | 11.194 | 13.857 | 17.053 | 21.027  | 25.620  | 31.022  | 37.358  | 44.366  | 52.122  |
| 400                                   | 11.413                                      | 14.232 | 17.567 | 21.713 | 26.617  | 32.518  | 39.403  | 47.400  | 56.371  |         |
| 450                                   | 14.412                                      | 17.965 | 22.217 | 27.496 | 33.731  | 41.185  | 49.938  | 60.004  | 71.308  |         |
| 500                                   | 17.903                                      | 22.133 | 27.413 | 33.960 | 41.688  | 50.873  | 61.597  | 73.975  |         |         |
| 560                                   | 22.337                                      | 27.864 | 34.400 | 42.497 | 52.199  | 63.793  | 77.202  | 92.800  |         |         |
| 630                                   | 28.248                                      | 35.177 | 43.581 | 53.721 | 66.147  | 80.658  | 97.785  | 117.432 |         |         |
| 710                                   | 35.967                                      | 44.776 | 55.429 | 68.405 | 83.920  | 102.480 | 124.260 | 149.269 |         |         |

Los valores que no figuran en la tabla pueden desarrollarse para pedidos especiales.

PN: Presión Nominal, se basa en  $C^* = 1.25$ ; corresponde a la máxima presión de operación admisible, en bar, a 20 °C. Los valores actuales calculados son 6.3 bar para PE80. \*Coeficiente de diseño general.

**PESOS POR METRO DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)**

| Diámetro nominal externo (milímetros)       | PN 4   | PN 5   | PN 6   | PN 8    | PN 10   | PN 12.5 | PN 16   | PN 20   | PN 25   |
|---|--------|--------|--------|---------|---------|---------|---------|---------|---------|
|   | 58 PSI | 72 PSI | 87 PSI | 116 PSI | 145 PSI | 181 PSI | 232 PSI | 290 PSI | 362 PSI |
| <b>Peso nominal en kilogramos por metro</b> |        |        |        |         |         |         |         |         |         |
| 16  |        |        |        |         |         |         |         | 0.084   | 0.094   |
| 20  |        |        |        |         |         |         | 0.107   | 0.121   | 0.152   |
| 25  |        |        |        |         |         | 0.137   | 0.156   | 0.197   | 0.225   |
| 32  |        |        |        |         | 0.179   | 0.212   | 0.260   | 0.305   | 0.362   |
| 40  |        |        |        | 0.227   | 0.269   | 0.331   | 0.401   | 0.477   | 0.566   |
| 50  |        |        | 0.287  | 0.341   | 0.421   | 0.511   | 0.623   | 0.742   | 0.888   |
| 63  |        |        | 0.451  | 0.537   | 0.671   | 0.818   | 0.990   | 1.185   | 1.396   |
| 75  |        |        | 0.624  | 0.767   | 0.947   | 1.160   | 1.384   | 1.670   | 1.989   |
| 90  |        |        | 0.904  | 1.100   | 1.363   | 1.666   | 2.002   | 2.408   | 2.852   |
| 110   |        |        | 1.326  | 1.656   | 2.037   | 2.463   | 2.985   | 3.587   | 4.277   |
| 125   |        |        | 1.722  | 2.131   | 2.597   | 3.180   | 3.865   | 4.638   | 5.507   |
| 140   |        |        | 2.169  | 2.666   | 3.262   | 3.987   | 4.825   | 5.824   | 6.922   |
| 160   |        |        | 2.846  | 3.500   | 4.267   | 5.219   | 6.336   | 7.591   | 9.026   |
| 180   |        |        | 3.565  | 4.399   | 5.406   | 6.617   | 8.008   | 9.592   | 11.409  |
| 200   |        |        | 4.419  | 5.455   | 6.681   | 8.130   | 9.875   | 11.873  | 14.115  |
| 225   |        |        | 5.554  | 6.904   | 8.462   | 10.325  | 12.512  | 15.027  | 17.851  |
| 250   |        |        | 6.888  | 8.456   | 10.389  | 12.718  | 15.399  | 18.494  | 22.027  |
| 280   |        |        | 8.600  | 10.662  | 13.050  | 15.948  | 19.300  | 23.232  | 27.628  |
| 315   | 7.062  | 8.838  | 10.939 | 13.430  | 16.537  | 20.204  | 24.446  | 29.394  | 34.975  |
| 355   | 8.992  | 11.194 | 13.857 | 17.053  | 21.027  | 25.620  | 31.022  | 37.358  | 44.366  |
| 400   | 11.413 | 14.232 | 17.567 | 21.713  | 26.617  | 32.518  | 39.403  | 47.400  | 56.371  |
| 450   | 14.412 | 17.965 | 22.217 | 27.496  | 33.731  | 41.185  | 49.938  | 60.004  | 71.308  |
| 500   | 17.903 | 22.133 | 27.413 | 33.960  | 41.688  | 50.873  | 61.597  | 73.975  |         |
| 560   | 22.337 | 27.864 | 34.400 | 42.497  | 52.199  | 63.793  | 77.202  | 92.800  |         |
| 630   | 28.248 | 35.177 | 43.581 | 53.721  | 66.147  | 80.658  | 97.785  | 117.432 |         |
| 710   | 35.967 | 44.776 | 55.429 | 68.405  | 83.920  | 102.480 | 124.260 | 149.269 |         |

Los valores que no figuran en la tabla pueden desarrollarse para pedidos especiales.

PN: Presión Nominal, se basa en  $C^* = 1.25$ ; corresponde a la máxima presión de operación admisible, en bar, a 20 °C. Los valores actuales calculados son 6.3 bar para PE100. \*Coeficiente de diseño general.

**PESOS POR METRO DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)**

| Diámetro nominal externo (milímetros) | SN 2                                 | SN 4   | SN 8   |
|---------------------------------------|--------------------------------------|--------|--------|
|                                       | SDR 33                               | SDR 26 | SDR 21 |
|                                       | Peso nominal en kilogramos por metro |        |        |
| 110                                   |                                      | 1.326  | 1.656  |
| 125                                   |                                      | 1.722  | 2.131  |
| 160                                   | 2.268                                | 2.846  | 3.500  |
| 200                                   | 3.586                                | 4.419  | 5.455  |
| 250                                   | 5.568                                | 6.888  | 8.456  |
| 315                                   | 8.838                                | 10.939 | 13.430 |
| 355                                   | 11.194                               | 13.857 | 17.053 |
| 400                                   | 14.232                               | 17.567 | 21.713 |
| 450                                   | 17.966                               | 22.217 | 27.496 |
| 500                                   | 22.133                               | 27.413 | 33.960 |
| 630                                   | 35.177                               | 43.581 | 53.721 |

Los valores que no figuran en la tabla pueden desarrollarse para pedidos especiales.

**PESOS POR METRO DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)**

| Tamaño Nominal IPS* (pulgadas)              | DN (milímetros) | DR 7.3  | DR 8.3  | DR 9    | DR 9.3  | DR 11   | DR 13.5 | DR 15.5 | DR 17   | DR 21  | DR 26  | DR 32.5 | DR 41  |
|---|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|---------|--------|
|   |                 | 254 PSI | 219 PSI | 200 PSI | 193 PSI | 160 PSI | 128 PSI | 110 PSI | 100 PSI | 80 PSI | 64 PSI | 51 PSI  | 40 PSI |
| <b>Peso nominal en kilogramos por metro</b> |                 |         |         |         |         |         |         |         |         |        |        |         |        |
| 3   | 88.9            | 2.767   | 2.484   | 2.314   | 2.246   | 1.935   | 1.605   | 1.415   | 1.298   | 1.064  | 0.869  | 0.701   | 0.555  |
| 4   | 114.3           | 4.575   | 4.102   | 3.825   | 3.717   | 3.200   | 2.653   | 2.335   | 2.146   | 1.754  | 1.431  | 1.151   | 0.923  |
| 5   | 136.5           | 6.528   | 5.856   | 5.454   | 5.301   | 4.568   | 3.787   | 3.336   | 3.056   | 2.505  | 2.045  | 1.644   | 1.313  |
| 5 ½   | 141.3           | 6.996   | 6.269   | 5.844   | 5.678   | 4.893   | 4.058   | 3.573   | 3.274   | 2.685  | 2.189  | 1.763   | 1.411  |
| 6   | 168.3           | 9.929   | 8.894   | 8.290   | 8.052   | 6.935   | 5.760   | 5.062   | 4.651   | 3.802  | 3.107  | 2.505   | 2.003  |
| 7   | 181.0           | 11.478  | 10.284  | 9.593   | 9.316   | 8.027   | 6.662   | 5.864   | 5.386   | 4.412  | 3.590  | 2.893   | 2.313  |
| 8   | 219.1           | 16.826  | 15.075  | 14.048  | 13.648  | 11.757  | 9.760   | 8.580   | 7.872   | 6.456  | 5.266  | 4.237   | 3.380  |
| 10  | 273.1           | 26.137  | 23.420  | 21.824  | 21.213  | 18.263  | 15.155  | 13.349  | 12.231  | 10.026 | 8.165  | 6.596   | 5.256  |
| 12  | 323.8           | 36.753  | 33.933  | 30.704  | 29.828  | 25.686  | 21.309  | 18.768  | 17.208  | 14.093 | 11.486 | 9.263   | 7.373  |
| 13  | 339.7           | 40.436  | 36.238  | 33.782  | 32.823  | 28.272  | 23.467  | 20.647  | 18.944  | 15.516 | 12.641 | 10.213  | 8.134  |
| 14  | 355.6           | 44.314  | 39.723  | 37.028  | 35.961  | 30.982  | 25.707  | 22.616  | 20.762  | 17.007 | 13.850 | 11.183  | 8.907  |
| 16  | 406.4           | 57.880  | 51.882  | 48.356  | 46.969  | 40.470  | 33.572  | 29.540  | 27.098  | 22.205 | 18.094 | 14.591  | 11.642 |
| 18  | 457.2           | 73.254  | 65.664  | 61.194  | 59.446  | 51.195  | 42.486  | 37.385  | 34.308  | 28.095 | 22.904 | 18.483  | 14.743 |
| 20  | 508.0           |         | 81.038  | 75.542  | 73.419  | 63.211  | 52.448  | 46.155  | 42.332  | 34.678 | 28.281 | 22.798  | 18.208 |
| 21 ½  | 546.1           |         |         |         |         |         | 60.643  | 53.348  | 48.950  | 40.097 | 32.694 | 26.380  | 21.020 |
| 22  | 558.8           |         |         | 91.399  | 88.834  | 76.493  | 63.495  | 55.849  | 51.238  | 41.990 | 34.223 | 27.606  | 22.041 |
| 24  | 609.6           |         |         | 108.802 | 105.717 | 91.040  | 75.557  | 66.463  | 60.992  | 49.960 | 40.732 | 32.829  | 26.194 |
| 26  | 660.4           |         |         |         | 124.067 | 106.852 | 88.667  | 78.003  | 71.552  | 58.622 | 47.808 | 38.552  | 30.755 |
| 28  | 711.2           |         |         |         | 143.885 | 123.885 | 102.827 | 90.464  | 83.001  | 67.977 | 55.450 | 44.735  | 35.679 |

**Los valores que no figuran en la tabla pueden desarrollarse para pedidos especiales.**

\*Los tamaños de la tubería están de acuerdo con el sistema IPS (ANSI B36.10).

DN: Diámetro nominal externo.

**PESOS POR METRO DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)**

| Tamaño Nominal IPS* (pulgadas)              | DN (milímetros) | DR 7.3  | DR 8.3  | DR 9    | DR 9.3  | DR 11   | DR 13.5 | DR 15.5 | DR 17   | DR 21   | DR 26  | DR 32.5 | DR 41  |
|---|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|--------|
|   |                 | 317 PSI | 274 PSI | 250 PSI | 241 PSI | 200 PSI | 160 PSI | 138 PSI | 125 PSI | 100 PSI | 80 PSI | 63 PSI  | 50 PSI |
| <b>Peso nominal en kilogramos por metro</b> |                 |         |         |         |         |         |         |         |         |         |        |         |        |
| 3   | 88.9            | 2.789   | 2.504   | 2.333   | 2.264   | 1.950   | 1.618   | 1.426   | 1.308   | 1.073   | 0.876  | 0.706   | 0.560  |
| 4   | 114.3           | 4.612   | 4.135   | 3.855   | 3.747   | 3.225   | 2.675   | 2.353   | 2.163   | 1.768   | 1.443  | 1.160   | 0.931  |
| 5   | 136.5           | 6.580   | 5.903   | 5.497   | 5.343   | 4.605   | 3.817   | 3.362   | 3.081   | 2.525   | 2.062  | 1.657   | 1.324  |
| 5 ½   | 141.3           | 7.052   | 6.319   | 5.890   | 5.723   | 4.932   | 4.091   | 3.601   | 3.300   | 2.706   | 2.207  | 1.777   | 1.422  |
| 6   | 168.3           | 10.007  | 8.964   | 8.356   | 8.116   | 6.990   | 5.806   | 5.102   | 4.688   | 3.832   | 3.131  | 2.525   | 2.019  |
| 7   | 181.0           | 11.570  | 10.366  | 9.669   | 9.390   | 8.091   | 6.715   | 5.910   | 5.429   | 4.447   | 3.619  | 2.916   | 2.332  |
| 8   | 219.1           | 16.960  | 15.195  | 14.159  | 13.757  | 11.851  | 9.838   | 8.648   | 7.934   | 6.508   | 5.308  | 4.271   | 3.407  |
| 10  | 273.1           | 26.345  | 23.606  | 21.997  | 21.382  | 18.408  | 15.275  | 13.455  | 12.328  | 10.106  | 8.230  | 6.648   | 5.298  |
| 12  | 323.8           | 37.045  | 33.195  | 30.948  | 30.065  | 25.890  | 21.479  | 18.917  | 17.345  | 14.205  | 11.577 | 9.336   | 7.432  |
| 13  | 339.7           | 40.757  | 36.527  | 34.050  | 33.084  | 28.496  | 23.653  | 20.811  | 19.094  | 15.639  | 12.741 | 10.294  | 8.199  |
| 14  | 355.6           | 44.667  | 40.039  | 37.322  | 36.247  | 31.228  | 25.911  | 22.796  | 20.927  | 17.142  | 13.960 | 11.272  | 8.977  |
| 16  | 406.4           | 58.341  | 52.295  | 48.740  | 47.343  | 40.792  | 33.839  | 29.774  | 27.313  | 22.381  | 18.238 | 14.707  | 11.735 |
| 18  | 457.2           | 73.837  | 66.186  | 61.680  | 59.918  | 51.602  | 42.824  | 37.683  | 34.581  | 28.318  | 23.086 | 18.630  | 14.860 |
| 20  | 508.0           |         | 81.682  | 76.142  | 74.003  | 63.714  | 52.865  | 46.522  | 42.669  | 34.953  | 28.506 | 22.979  | 18.353 |
| 21 ½  | 546.1           |         |         |         |         |         | 61.125  | 53.722  | 49.339  | 40.416  | 32.954 | 26.590  | 21.187 |
| 22  | 558.8           |         |         | 92.126  | 89.540  | 77.101  | 63.999  | 56.293  | 51.646  | 42.323  | 34.495 | 27.825  | 22.216 |
| 24  | 609.6           |         |         | 109.666 | 106.557 | 91.763  | 76.157  | 66.992  | 61.477  | 50.357  | 41.056 | 33.090  | 26.403 |
| 26  | 660.4           |         |         |         | 125.053 | 107.702 | 89.372  | 78.623  | 72.121  | 59.088  | 48.188 | 38.859  | 30.999 |
| 28  | 711.2           |         |         |         | 145.029 | 124.870 | 103.644 | 91.183  | 83.661  | 68.517  | 55.891 | 45.091  | 35.962 |

\*Los tamaños de la tubería están de acuerdo con el sistema IPS (ANSI B36.10).

DN: Diámetro nominal externo.

**PESOS POR METRO DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)**

| Tamaño Nominal IPS* (pulgadas) | DN (milímetros) | DR 7  | DR 9    | DR 11   | DR 13.5 | DR 15.5 | DR 17   | DR 21  | DR 26  | DR 32.5 |
|--------------------------------|-----------------|---|---------|---------|---------|---------|---------|--------|--------|---------|
|                                |                 | 267 PSI                                     | 200 PSI | 160 PSI | 128 PSI | 110 PSI | 100 PSI | 80 PSI | 64 PSI | 51 PSI  |
|                                |                 | <b>Peso nominal en kilogramos por metro</b> |         |         |         |         |         |        |        |         |
| ½                              | 21.34           | 0.165                                       | 0.133   | 0.111   | 0.092   |         |         |        |        |         |
| ¾                              | 26.70           | 0.259                                       | 0.209   | 0.174   | 0.145   | 0.128   | 0.117   |        |        |         |
| 1                              | 33.40           | 0.405                                       | 0.326   | 0.274   | 0.226   | 0.200   | 0.183   | 0.151  | 0.148  |         |
| 1 ¼                            | 42.20           | 0.646                                       | 0.520   | 0.437   | 0.361   | 0.318   | 0.293   | 0.239  | 0.196  |         |
| 1 ½                            | 48.30           | 0.845                                       | 0.682   | 0.571   | 0.475   | 0.418   | 0.383   | 0.312  | 0.255  | 0.217   |
| 2                              | 60.30           | 1.319                                       | 1.066   | 0.892   | 0.740   | 0.650   | 0.599   | 0.489  | 0.397  | 0.321   |

**Los valores que no figuran en la tabla pueden desarrollarse para pedidos especiales.**

\*Los tamaños de la tubería están de acuerdo con el sistema IPS (ANSI B36.10).

DN: Diámetro nominal externo.

**PESOS POR METRO DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)**

| Tamaño Nominal IPS* (pulgadas) | DN (milímetros) | DR 7  | DR 9    | DR 11   | DR 13.5 | DR 15.5 | DR 17   | DR 21   | DR 26  | DR 32.5 |
|--------------------------------|-----------------|---|---------|---------|---------|---------|---------|---------|--------|---------|
|                                |                 | 333 PSI                                     | 250 PSI | 200 PSI | 160 PSI | 138 PSI | 125 PSI | 100 PSI | 80 PSI | 63 PSI  |
|                                |                 | <b>Peso nominal en kilogramos por metro</b> |         |         |         |         |         |         |        |         |
| ½                              | 21.34           | 0.167                                       | 0.134   | 0.112   | 0.093   |         |         |         |        |         |
| ¾                              | 26.70           | 0.261                                       | 0.211   | 0.175   | 0.146   | 0.129   | 0.118   |         |        |         |
| 1                              | 33.40           | 0.409                                       | 0.329   | 0.277   | 0.227   | 0.202   | 0.184   | 0.152   | 0.149  |         |
| 1 ¼                            | 42.20           | 0.651                                       | 0.524   | 0.440   | 0.364   | 0.321   | 0.295   | 0.241   | 0.198  |         |
| 1 ½                            | 48.30           | 0.851                                       | 0.688   | 0.576   | 0.478   | 0.421   | 0.386   | 0.315   | 0.257  | 0.219   |
| 2                              | 60.30           | 1.330                                       | 1.074   | 0.899   | 0.746   | 0.656   | 0.603   | 0.492   | 0.400  | 0.323   |

**Los valores que no figuran en la tabla pueden desarrollarse para pedidos especiales.**

\*Los tamaños de la tubería están de acuerdo con el sistema IPS (ANSI B36.10).

DN: Diámetro nominal externo.



**PESOS POR METRO DE TUBERÍA DE POLIETILENO DE ALTA DENSIDAD (HDPE/PEAD)**

| Tamaño Nominal (pulgadas) | DN (milímetros) | SDR 5                                       | SDR 6   | SDR 7   | SDR 7.3 | SDR 9   | SDR 11  | SDR 13.5 | SDR 17  | SDR 21  | SDR 26 | SDR 32.5 |
|---------------------------|-----------------|---|---------|---------|---------|---------|---------|----------|---------|---------|--------|----------|
|                           |                 | 504 PSI                                     | 403 PSI | 336 PSI | 320 PSI | 252 PSI | 202 PSI | 162 PSI  | 126 PSI | 101 PSI | 81 PSI | 64 PSI   |
|                           |                 | <b>Peso nominal en kilogramos por metro</b> |         |         |         |         |         |          |         |         |        |          |
| ½                         | 21.34           |   |         | 0.167   |         | 0.134   | 0.112   |          |         |         |        |          |
| ¾                         | 26.67           |   |         | 0.260   |         | 0.210   | 0.175   |          |         |         |        |          |
| 1                         | 33.40           | 0.477                                       | 0.642   | 0.409   | 0.394   | 0.349   | 0.274   | 0.227    | 0.184   |         |        |          |
| 1 ¼                       | 42.16           | 0.850                                       | 0.738   | 0.650   | 0.627   | 0.523   | 0.440   | 0.364    | 0.295   | 0.241   |        |          |
| 1 ½                       | 48.26           | 1.111                                       | 0.967   | 0.851   | 0.821   | 0.687   | 0.575   | 0.478    | 0.385   | 0.312   |        |          |
| 2                         | 60.33           | 1.740                                       | 1.507   | 1.332   | 1.284   | 1.074   | 0.900   | 0.746    | 0.604   | 0.509   |        |          |
| 2 ½                       | 73.00           | 2.549                                       | 2.212   | 1.951   | 1.882   | 1.571   | 1.315   | 1.092    | 0.881   | 0.723   |        |          |
| 3                         | 88.90           | 3.778                                       | 3.278   | 2.891   | 2.790   | 2.333   | 1.951   | 1.618    | 1.307   | 1.072   |        |          |
| 4                         | 114.30          | 6.245                                       | 5.421   | 4.780   | 4.613   | 3.855   | 3.226   | 2.675    | 2.163   | 1.769   |        |          |
| 5                         | 141.30          | 9.544                                       | 8.285   | 7.305   | 7.050   | 5.875   | 4.931   | 4.100    | 3.309   | 2.706   |        |          |
| 6                         | 168.28          | 13.538                                      | 11.748  | 10.356  | 10.005  | 8.353   | 6.989   | 5.805    | 4.689   | 3.831   | 3.132  | 2.524    |
| 8                         | 219.08          | 22.945                                      | 19.923  | 17.555  | 16.957  | 14.156  | 11.847  | 9.836    | 7.935   | 6.508   | 5.305  | 4.270    |
| 10                        | 273.05          | 35.640                                      | 30.938  | 27.277  | 26.337  | 21.994  | 18.407  | 15.274   | 12.324  | 10.100  | 8.229  | 6.649    |
| 12                        | 323.85          | 50.135                                      | 43.523  | 38.358  | 37.049  | 30.952  | 25.895  | 21.484   | 17.348  | 14.209  | 11.583 | 9.340    |
| 14                        | 355.60          | 60.447                                      | 52.410  | 46.260  |         | 37.320  | 31.225  | 25.911   | 20.927  | 17.140  | 13.965 | 11.275   |
| 16                        | 406.40          | 78.591                                      | 68.539  | 60.424  |         | 48.739  | 40.795  | 33.840   | 27.312  | 22.376  | 18.237 | 14.710   |
| 18                        | 457.20          | 99.972                                      | 86.738  | 76.457  |         | 61.680  | 51.598  | 42.814   | 34.582  | 28.321  | 23.090 | 18.628   |
| 20                        | 508.00          |   |         | 94.407  |         | 76.144  | 63.717  | 52.894   | 42.669  | 34.952  | 29.467 | 22.978   |
| 22                        | 558.80          |   |         | 114.236 |         | 92.128  | 77.101  | 63.997   | 51.649  | 42.325  | 34.498 | 27.832   |
| 24                        | 609.60          |   |         | 135.967 |         | 109.664 | 91.759  | 76.156   | 61.469  | 50.354  | 41.049 | 33.099   |
| 26                        | 660.40          |   |         |         |         | 128.695 | 107.708 | 89.338   | 72.126  | 59.097  |        | 38.859   |
| 28                        | 711.20          |   |         |         |         | 149.248 | 124.865 | 103.644  | 83.654  | 68.521  |        | 45.081   |

Los valores que no figuran en la tabla pueden desarrollarse para pedidos especiales.

DN: Diámetro nominal externo.