

CAÑERÍA ASTM A53

| Diámetro Nominal Cañería IPS ⁶⁾ | Identificación | | Dimensiones | | | Pesos | | Superficies | | Secciones Transversales | | Momento Inercia m ⁴ | Módulo Resistente cm ² | Radio Giro cm | Presión Prueba A kgf/cm ² | Presión Prueba B kgf/cm ² |
|---|-------------------|-----------------|-------------|-------------|------------|-----------------------------|--|--|--|--------------------------------------|-------------------------------------|--------------------------------|-----------------------------------|---------------|--------------------------------------|--------------------------------------|
| | IPS ²⁾ | Número Schedule | Diámetros | | Espesor mm | Cañería ³⁾ kgf/m | Agua en ⁴⁾ la Cañería kgf/m | Exterior ⁵⁾ m ² /m | Interior ⁶⁾ m ² /m | Secciones Transversales | | | | | | |
| | | | Exterior mm | Interior mm | | | | | | Fluido ⁷⁾ cm ² | Metal ⁸⁾ cm ² | | | | | |
| | | | | | | | | | | | | | | | | |
| 1/8 | STD | 40 | 10.3 | 6.84 | 1.73 | 0.37 | 0.037 | 0.0324 | 0.0215 | 0.367 | 0.466 | 0.045 | 0.0864 | 0.309 | 49.3 | 49.3 |
| | XS | 80 | 10.3 | 5.48 | 2.41 | 0.47 | 0.024 | 0.0324 | 0.0172 | 0.236 | 0.597 | 0.051 | 0.0987 | 0.292 | 59.9 | 59.9 |
| 1/4 | STD | 40 | 13.7 | 9.22 | 2.24 | 0.63 | 0.067 | 0.0430 | 0.0290 | 0.668 | 0.806 | 0.137 | 0.2007 | 0.413 | 49.3 | 49.3 |
| | XS | 80 | 13.7 | 7.66 | 3.02 | 0.8 | 0.046 | 0.0430 | 0.0241 | 0.461 | 1.013 | 0.156 | 0.2278 | 0.392 | 59.9 | 59.9 |
| 3/8 | STD | 40 | 17.1 | 12.48 | 2.31 | 0.84 | 0.122 | 0.0537 | 0.0392 | 1.223 | 1.073 | 0.301 | 0.3516 | 0.529 | 49.3 | 49.3 |
| | XS | 80 | 17.1 | 10.7 | 3.2 | 1.1 | 0.090 | 0.0537 | 0.0336 | 0.899 | 1.397 | 0.355 | 0.4156 | 0.504 | 59.9 | 59.9 |
| 1/2 | STD | 40 | 21.3 | 15.76 | 2.77 | 1.27 | 0.195 | 0.0669 | 0.0495 | 1.951 | 1.613 | 0.708 | 0.6644 | 0.662 | 49.3 | 49.3 |
| | XS | 80 | 21.3 | 13.84 | 3.73 | 1.62 | 0.150 | 0.0669 | 0.0435 | 1.504 | 2.059 | 0.830 | 0.7796 | 0.635 | 59.9 | 59.9 |
| | | 160 | 21.3 | 11.74 | 4.78 | 1.95 | 0.108 | 0.0669 | 0.0369 | 1.082 | 2.481 | 0.917 | 0.8612 | 0.608 | 63.4 | 63.4 |
| | XXS | 80 | 21.3 | 6.36 | 7.47 | 2.55 | 0.032 | 0.0669 | 0.0200 | 0.318 | 3.246 | 1.002 | 0.9412 | 0.556 | 70.4 | 70.4 |
| 3/4 | STD | 40 | 26.7 | 20.96 | 2.87 | 1.69 | 0.345 | 0.0839 | 0.0658 | 3.450 | 2.149 | 1.547 | 1.16 | 0.849 | 49.3 | 49.3 |
| | XS | 80 | 26.7 | 18.88 | 3.91 | 2.2 | 0.280 | 0.0839 | 0.0593 | 2.800 | 2.799 | 1.871 | 1.40 | 0.818 | 59.9 | 59.9 |
| | | 160 | 26.7 | 15.58 | 5.56 | 2.9 | 0.191 | 0.0839 | 0.0489 | 1.906 | 3.693 | 2.205 | 1.65 | 0.773 | 66.9 | 66.9 |
| | XXS | 80 | 26.7 | 11.06 | 7.82 | 3.64 | 0.096 | 0.0839 | 0.347 | 0.961 | 4.638 | 2.421 | 1.81 | 0.723 | 70.4 | 70.4 |
| 1 | STD | 40 | 33.4 | 26.64 | 3.38 | 2.5 | 0.557 | 0.1049 | 0.0837 | 5.574 | 3.188 | 3.636 | 2.18 | 1.068 | 49.3 | 49.3 |
| | XS | 80 | 33.4 | 24.3 | 4.55 | 3.24 | 0.464 | 0.1094 | 0.0763 | 4.638 | 4.124 | 4.397 | 2.63 | 1.033 | 59.9 | 59.9 |
| | | 160 | 33.4 | 20.7 | 6.35 | 4.24 | 0.337 | 0.1094 | 0.0650 | 3.365 | 5.396 | 5.208 | 3.12 | 0.982 | 66.9 | 66.9 |
| | XXS | 80 | 33.4 | 15.22 | 9.09 | 5.45 | 0.182 | 0.1094 | 0.0478 | 1.819 | 6.942 | 5.845 | 3.50 | 0.918 | 70.4 | 70.4 |
| 1 1/4 | STD | 40 | 42.2 | 35.08 | 3.56 | 3.39 | 0.967 | 0.1326 | 0.1102 | 9.665 | 4.322 | 8.134 | 3.85 | 1.372 | 84.5 | 91.5 |
| | XS | 80 | 42.2 | 32.5 | 4.85 | 4.47 | 0.830 | 0.1326 | 0.1021 | 8.296 | 5.691 | 10.09 | 4.78 | 1.332 | 126.8 | 133.8 |
| | | 160 | 42.2 | 29.5 | 6.35 | 5.61 | 0.683 | 0.1326 | 0.0927 | 6.835 | 7.152 | 11.85 | 5.62 | 1.287 | 133.8 | 140.8 |
| | XXS | 80 | 42.2 | 22.8 | 9.7 | 7.77 | 0.408 | 0.1326 | 0.0716 | 4.083 | 9.904 | 14.24 | 6.75 | 1.199 | 154.9 | 162.0 |
| 1 1/2 | STD | 40 | 48.3 | 40.94 | 3.68 | 4.05 | 1.316 | 0.1517 | 0.1289 | 13.164 | 5.159 | 12.93 | 5.35 | 1.583 | 84.5 | 91.5 |
| | XS | 80 | 48.3 | 38.14 | 5.08 | 5.41 | 1.142 | 0.1517 | 0.1198 | 11.425 | 6.898 | 16.33 | 6.76 | 1.539 | 126.8 | 133.8 |
| | | 160 | 48.3 | 34.02 | 7.14 | 7.25 | 0.909 | 0.1517 | 0.1069 | 9.090 | 9.233 | 20.14 | 8.34 | 1.477 | 137.3 | 144.4 |
| | XXS | 80 | 48.3 | 27.98 | 10.16 | 9.56 | 0.615 | 0.1517 | 0.0879 | 6.149 | 12.174 | 23.71 | 9.82 | 1.395 | 154.9 | 162.0 |
| 2 | STD | 40 | 60.3 | 52.48 | 3.91 | 5.44 | 2.163 | 0.1894 | 0.1649 | 21.63 | 6.927 | 27.66 | 9.18 | 1.998 | 162.0 | 176.1 |
| | XS | 80 | 60.3 | 49.22 | 5.54 | 7.48 | 1.903 | 0.1894 | 0.1546 | 19.03 | 9.531 | 36.09 | 12.0 | 1.946 | 176.1 | 176.1 |
| | | 160 | 60.3 | 42.82 | 8.74 | 11.11 | 1.440 | 0.1894 | 0.1345 | 14.40 | 14.16 | 48.40 | 16.1 | 1.849 | 176.1 | 176.1 |
| | XXS | 80 | 60.3 | 38.16 | 11.07 | 13.44 | 1.144 | 0.1894 | 0.1199 | 11.44 | 17.12 | 54.49 | 18.1 | 1.784 | 176.1 | 176.1 |
| 2 1/2 | STD | 40 | 73 | 62.68 | 5.16 | 8.63 | 3.086 | 0.2293 | 0.1969 | 30.86 | 11.00 | 63.63 | 17.4 | 2.405 | 176.1 | 176.1 |
| | XS | 80 | 73 | 58.98 | 7.01 | 11.41 | 2.732 | 0.2293 | 0.1853 | 27.32 | 14.53 | 80.00 | 21.9 | 2.346 | 176.1 | 176.1 |
| | | 160 | 73 | 53.96 | 9.52 | 14.9 | 2.287 | 0.2293 | 0.1695 | 22.87 | 18.99 | 97.78 | 26.8 | 2.269 | 176.1 | 176.1 |
| | XXS | 80 | 73 | 44.96 | 14.02 | 20.39 | 1.588 | 0.2293 | 0.1412 | 15.88 | 25.98 | 119.3 | 32.7 | 2.143 | 176.1 | 176.1 |
| 3 | STD | 40 | 88.9 | 82.54 | 3.18 | 6.72 | 5.351 | 0.2793 | 0.2593 | 53.51 | 8.56 | 78.76 | 17.7 | 3.033 | 90.8 | 105.6 |
| | | | 88.9 | 80.98 | 3.96 | 8.29 | 5.150 | 0.2793 | 0.2544 | 51.50 | 10.57 | 95.51 | 21.5 | 3.006 | 112.7 | 131.7 |
| | | | 88.9 | 79.34 | 4.78 | 9.92 | 4.944 | 0.2793 | 0.2493 | 49.44 | 12.63 | 112.1 | 25.2 | 2.979 | 135.9 | 159.2 |
| | | | 40 | 77.92 | 5.49 | 11.29 | 4.769 | 0.2793 | 0.2448 | 47.69 | 14.39 | 125.7 | 28.3 | 2.955 | 156.3 | 176.1 |
| | | | 88.9 | 76.2 | 6.35 | 12.93 | 4.560 | 0.2793 | 0.2394 | 45.60 | 16.47 | 141.1 | 31.7 | 2.927 | 176.1 | 176.1 |
| | | | 88.9 | 74.62 | 7.14 | 14.4 | 4.373 | 0.2793 | 0.2344 | 43.73 | 18.34 | 154.4 | 34.7 | 2.902 | 176.1 | 176.1 |
| | XS | 80 | 88.9 | 73.66 | 7.62 | 15.27 | 4.261 | 0.2793 | 0.2314 | 42.61 | 19.46 | 162.1 | 36.5 | 2.886 | 176.1 | 176.1 |
| | | | 88.9 | 66.64 | 11.13 | 21.35 | 3.488 | 0.2793 | 0.2094 | 34.88 | 27.19 | 209.8 | 47.2 | 2.778 | 176.1 | 176.1 |
| | | | 88.9 | 58.42 | 15.24 | 27.68 | 2.680 | 0.2793 | 0.1835 | 26.80 | 35.27 | 249.4 | 56.1 | 2.659 | 176.1 | 176.1 |
| | | | 101.6 | 95.24 | 3.18 | 7.72 | 7.124 | 0.3192 | 0.2992 | 71.24 | 9.83 | 119.4 | 23.5 | 3.481 | 78.9 | 92.3 |
| | | | 101.6 | 93.68 | 3.96 | 9.53 | 6.893 | 0.3192 | 0.2943 | 68.93 | 12.15 | 145.0 | 28.5 | 3.455 | 98.6 | 115.5 |
| | | | 101.6 | 92.04 | 4.78 | 11.41 | 6.653 | 0.3192 | 0.2892 | 66.53 | 14.54 | 170.8 | 33.6 | 3.427 | 119.0 | 138.7 |
| XXS | 80 | 101.6 | 90.12 | 5.74 | 13.57 | 6.379 | 0.3192 | 0.2831 | 63.79 | 17.29 | 199.3 | 39.2 | 3.395 | 143.0 | 166.9 | |
| | | 101.6 | 88.9 | 6.35 | 14.92 | 6.207 | 0.3192 | 0.2793 | 62.07 | 19.00 | 216.4 | 42.6 | 3.375 | 158.5 | 176.1 | |
| | | 101.6 | 87.32 | 7.14 | 16.63 | 5.988 | 0.3192 | 0.2743 | 59.88 | 21.19 | 237.7 | 46.8 | 3.349 | 176.1 | 176.1 | |
| | | 101.6 | 85.44 | 8.08 | 18.63 | 5.733 | 0.3192 | 0.2684 | 57.33 | 23.74 | 261.5 | 51.5 | 3.319 | 197.2 | 197.2 | |
| | | 114.3 | 107.94 | 3.18 | 8.71 | 9.151 | 0.3591 | 0.3391 | 91.51 | 11.10 | 171.5 | 30.0 | 3.930 | 70.4 | 82.4 | |
| | | 114.3 | 106.38 | 3.96 | 10.78 | 8.888 | 0.3591 | 0.3342 | 88.88 | 13.73 | 209.2 | 36.6 | 3.904 | 88.0 | 102.8 | |
| 4 | STD | 40 | 114.3 | 104.74 | 4.78 | 12.91 | 8.616 | 0.3591 | 0.3291 | 86.16 | 16.45 | 247.1 | 43.2 | 3.876 | 105.6 | 123.2 |
| | | | 114.3 | 103.18 | 5.56 | 14.91 | 8.361 | 0.3591 | 0.3241 | 83.61 | 18.99 | 281.5 | 49.3 | 3.850 | 123.2 | 143.7 |
| | | | 114.3 | 102.26 | 6.02 | 16.07 | 8.213 | 0.3591 | 0.3213 | 82.13 | 20.48 | 301.1 | 52.7 | 3.834 | 133.8 | 155.6 |
| | | | 114.3 | 101.6 | 6.35 | 16.9 | 8.107 | 0.3591 | 0.3192 | 81.07 | 21.54 | 314.8 | 55.1 | 3.823 | 140.8 | 164.1 |
| | | | 114.3 | 100.02 | 7.14 | 18.87 | 7.857 | 0.3591 | 0.3142 | 78.57 | 24.04 | 346.6 | 60.6 | 3.797 | 158.5 | 184.5 |
| | | | 114.3 | 98.46 | 7.92 | 20.78 | 7.614 | 0.3591 | 0.3093 | 76.14 | 26.47 | 376.5 | 65.9 | 3.772 | 176.1 | 197.2 |
| | XS | 80 | 114.3 | 97.18 | 8.56 | 22.32 | 7.417 | 0.3591 | 0.3053 | 74.17 | 28.44 | 400.0 | 70.0 | 3.751 | 190.1 | 197.2 |
| | | | 114.3 | 92.04 | 11.13 | 28.32 | 6.653 | 0.3591 | 0.2892 | 66.53 | 36.07 | 485.6 | 85.0 | 3.669 | 197.2 | 197.2 |
| | | | 114.3 | 87.32 | 13.49 | 33.54 | 5.988 | 0.3591 | 0.2743 | 59.88 | 42.72 | 552.4 | 96.7 | 3.596 | 197.2 | 197.2 |
| | | | 114.3 | 80.06 | 17.12 | 41.03 | 5.034 | 0.3591 | 0.2515 | 50.34 | 52.27 | 636.2 | 111 | 3.489 | 197.2 | 197.2 |