Adymar

Industriales, S. de R.L. de C.V.

Tuberia, Valvulas y conexiones

Adymar
Industriales, S. de R.L. de C.V.

Somos una empresa especializada en materiales para la conducción de fluidos y gases, proporcionamos soluciones para la industria a lo largo de toda la república mexicana.

Adymar es una empresa mexicana comprometida con las personas y sus proyectos, una empresa que esta cimentada con integridad y esfuerzo. Damos solución eficaz y eficiente a sus necesidades en tuberías, válvulas y conexiones en materiales como acero al carbón, inoxidable y galvanizado.

# NUESTRAS MARCAS


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# CATÁLOGO

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# Tuberia en acero al carbon con y sin costura

## Tuberia galvanizada

| Estándar de Especificación | | Aplicación | Requerimiento Químico | | | | | Requerimiento Físico | | Otras Pruebas e Inspecciones |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | C | Si | Mn | P | S | Esfuerzo de Tensión | Esfuerzo de Cedencia Mínimo | |
| ASTM A-53 | Grado A | Tuberia para Uso General | 0.25 Máx | — | 0.95 Máx | 0.05 Máx | 0.06 Máx | 48,000 psi | 30,000 psi | En caso de galvanizado se requiere Prueba de recubrimiento de zinc. Prueba hidrostática especificada relativamente en su diámetro y grado. |
| | Grado B | | 0.30 Máx | — | 1.20 Máx | 0.05 Máx | 0.06 Máx | 60,000 psi | 35,000 psi | |
| ASTM A-53 | Grado A-25 Clase I | Tuberia de Linea | 0.21 Máx | — | 0.30 Min / 0.60 Max | 0.045 Máx | 0.06 Máx | 45,000 psi | 25,000 psi | |
| | Grado A-25 Clase II | | 0.21 Máx | — | 0.30 Min / 0.60 Max | .045 Min / .080 Max | 0.06 Máx | 65,000 psi | 25,000 psi | |
| | Grado A | | 0.21 Máx | — | 0.90 Máx | 0.04 Máx | 0.05 Máx | 48,000 psi | 30,000 psi | |
| | Grado B | | 0.2 Máx c/ Cost. 0.27 Máx s/ Cost. | — | 1.15 Máx | 0.04 Máx | 0.05 Máx | 60,000 psi | 35,000 psi | |
| ASTM A-106 | Grado A | Uso Especial para Condiciones Extremas | 0.25 Máx | 0.10 Min | 0.27 Min 0.93 Máx | 0.048 Máx | 0.0058 Máx | 48,000 psi | 30,000 psi | |
| | Grado B | | 0.30 Máx | 0.10 Min | 0.29 Min 1.06 Máx | 0.048 Máx | 0.0058 Máx | 60,000 psi | 35,000 psi | |
| | Grado C | | 0.35 Máx | 0.10 Min | 0.29 Min 1.06 Máx | 0.048 Máx | 0.0058 Máx | 70,000 psi | 40,000 psi | |
| ASTM A-252 | Grado 1 | Tuberia para Pilotes y Estructuras | — | — | — | 0.050 Máx | — | 50,000 psi | 30,000 psi | |
| | Grado 2 | | — | — | — | 0.050 Máx | — | 60,000 psi | 35,000 psi | No Requiere de Prueba Hidrostática |
| | Grado 3 | | — | — | — | 0.050 Máx | — | 66,000 psi | 45,000 psi | |

| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/ft | Kg/m |
| ¼ | 0.405 | 10.3 | 0.035 | 0.89 | 5 | 0.14 | 0.21 |
| | | | 0.049 | 1.24 | 10 | 0.19 | 0.28 |
| | | | 0.068 | 1.73 | 40 STD | 0.24 | 0.36 |
| | | | 0.095 | 2.41 | 80 XS | 0.31 | 0.47 |
| ⅜ | 0.540 | 13.7 | 0.049 | 1.24 | 5 | 0.26 | 0.38 |
| | | | 0.065 | 1.65 | 10 | 0.33 | 0.49 |
| | | | 0.088 | 2.24 | 40 STD | 0.43 | 0.63 |
| | | | 0.119 | 3.02 | 80 XS | 0.54 | 0.80 |
| ½ | 0.675 | 17.1 | 0.049 | 1.24 | 5 | 0.33 | 0.49 |
| | | | 0.065 | 1.65 | 10 | 0.42 | 0.63 |
| | | | 0.091 | 2.31 | 40 STD | 0.57 | 0.85 |
| | | | 0.126 | 3.20 | 80 XS | 0.74 | 1.10 |
| ⅝ | 0.840 | 21.3 | 0.065 | 1.65 | 5 SS | 0.54 | 0.80 |
| | | | 0.083 | 2.11 | 10 10S | 0.67 | 1.00 |
| | | | 0.109 | 2.77 | 40 STD | 0.85 | 1.27 |
| | | | 0.147 | 3.73 | 80 XS | 1.09 | 1.62 |
| | | | 0.188 | 4.78 | 160 | 1.31 | 1.95 |
| | | | 0.294 | 7.47 | XXS | 1.72 | 2.55 |
| ¾ | 1.050 | 26.7 | 0.065 | 1.65 | 5 SS | 0.68 | 1.02 |
| | | | 0.083 | 2.11 | 10 10S | 0.86 | 1.28 |
| | | | 0.113 | 2.87 | 40 STD | 1.13 | 1.68 |
| | | | 0.154 | 3.91 | 80 XS | 1.48 | 2.20 |
| | | | 0.219 | 5.56 | 160 | 1.95 | 2.90 |
| | | | 0.308 | 7.82 | XXS | 2.44 | 3.64 |
| 1 | 1.315 | 33.4 | 0.065 | 1.65 | 5 SS | 0.87 | 1.29 |
| | | | 0.109 | 2.77 | 10 10S | 1.41 | 2.09 |
| | | | 0.133 | 3.38 | 40 STD | 1.68 | 2.50 |
| | | | 0.179 | 4.55 | 80 XS | 2.17 | 3.24 |
| | | | 0.250 | 6.35 | 160 | 2.85 | 4.24 |
| | | | 0.358 | 9.09 | XXS | 3.66 | 5.45 |
| 1¼ | 1.660 | 42.2 | 0.065 | 1.65 | 5 SS | 0.87 | 1.29 |
| | | | 0.109 | 2.77 | 10 10S | 1.41 | 2.09 |
| | | | 0.140 | 3.56 | 40 STD | 2.27 | 3.39 |
| | | | 0.191 | 4.85 | 80 XS | 3.00 | 4.46 |
| | | | 0.250 | 6.35 | 160 | 3.77 | 5.61 |
| | | | 0.382 | 9.70 | XXS | 5.22 | 7.77 |
| 1½ | 1.900 | 48.3 | 0.065 | 1.65 | 5 SS | 1.28 | 1.90 |
| | | | 0.109 | 2.77 | 10 10S | 2.09 | 3.11 |
| | | | 0.145 | 3.68 | 40 STD | 2.72 | 4.05 |
| | | | 0.200 | 5.08 | 80 XS | 3.63 | 5.41 |
| | | | 0.281 | 7.14 | 160 | 4.86 | 7.24 |
| | | | 0.400 | 10.16 | XXS | 6.41 | 9.55 |



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| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/Ft | Kg/m |
| 2 | 2.375 | 60.3 | 0.065 | 1.65 | 5 SS | 1.61 | 2.39 |
| | | | 0.109 | 2.77 | 10 10S | 2.64 | 3.93 |
| | | | 0.154 | 3.91 | 40 STD | 3.66 | 5.44 |
| | | | 0.172 | 4.37 | | 4.05 | 6.03 |
| | | | 0.188 | 4.78 | | 4.40 | 6.54 |
| | | | 0.218 | 5.54 | 80 XS | 5.03 | 7.48 |
| | | | 0.250 | 6.35 | | 5.68 | 8.45 |
| | | | 0.281 | 7.14 | | 6.29 | 9.36 |
| | | | 0.344 | 8.74 | 160 | 7.47 | 11.12 |
| | | | 0.436 | 11.07 | XXS | 9.04 | 13.45 |
| 2½ | 2.875 | 73.0 | 0.083 | 2.11 | 5 SS | 2.48 | 3.69 |
| | | | 0.120 | 3.05 | 10 10S | 3.53 | 5.26 |
| | | | 0.203 | 5.16 | 40 STD | 5.80 | 8.63 |
| | | | 0.216 | 5.49 | | 6.14 | 9.14 |
| | | | 0.250 | 6.35 | | 7.02 | 10.44 |
| | | | 0.276 | 7.01 | 80 XS | 7.67 | 11.41 |
| | | | 0.375 | 9.53 | 160 | 10.02 | 14.92 |
| | | | 0.552 | 14.02 | XXS | 13.71 | 20.40 |
| 3 | 3.500 | 88.9 | 0.083 | 2.11 | 5 SS | 3.03 | 4.51 |
| | | | 0.120 | 3.05 | 10 10S | 4.34 | 6.45 |
| | | | 0.125 | 3.18 | | 4.51 | 6.71 |
| | | | 0.156 | 3.96 | | 5.58 | 8.30 |
| | | | 0.188 | 4.78 | | 6.66 | 9.91 |
| | | | 0.216 | 5.49 | 40 STD | 7.58 | 11.29 |
| | | | 0.250 | 6.35 | | 8.69 | 12.93 |
| | | | 0.281 | 7.14 | | 9.87 | 14.39 |
| | | | 0.300 | 7.62 | 80 XS | 10.26 | 15.27 |
| | | | 0.438 | 11.13 | 160 | 14.54 | 21.34 |
| | | | 0.600 | 15.24 | XXS | 18.60 | 27.68 |
| 3½ | 4.000 | 101.6 | 0.083 | 2.11 | 5 SS | 3.48 | 5.17 |
| | | | 0.120 | 3.05 | 10 10S | 4.98 | 7.41 |
| | | | 0.125 | 3.18 | | 5.18 | 7.71 |
| | | | 0.156 | 3.96 | | 6.41 | 9.54 |
| | | | 0.188 | 4.78 | | 7.66 | 11.40 |
| | | | 0.226 | 5.74 | 40 STD | 9.12 | 13.57 |
| | | | 0.250 | 6.35 | | 10.02 | 14.92 |
| | | | 0.281 | 7.14 | | 11.17 | 16.63 |
| | | | 0.318 | 8.08 | 80 XS | 12.52 | 18.63 |
| | | | 0.636 | 16.15 | XXS | 22.87 | 34.04 |
| 4 | 4.500 | 114.3 | 0.083 | 2.11 | 5 SS | 3.92 | 5.83 |
| | | | 0.120 | 3.05 | 10 10S | 5.62 | 8.36 |
| | | | 0.125 | 3.18 | | 5.85 | 8.70 |
| | | | 0.156 | 3.96 | | 7.24 | 10.78 |
| | | | 0.188 | 4.78 | | 8.67 | 12.90 |
| | | | 0.219 | 5.56 | | 10.02 | 14.92 |
| | | | 0.237 | 6.02 | 40 STD | 10.80 | 16.07 |
| | | | 0.250 | 6.35 | | 11.36 | 16.90 |
| | | | 0.281 | 7.14 | 80 | 12.67 | 18.86 |
| | | | 0.312 | 7.92 | | 13.97 | 20.78 |
| | | | 0.337 | 8.56 | 80 XS | 15.00 | 22.32 |
| | | | 0.438 | 11.13 | 120 | 19.02 | 28.31 |
| | | | 0.531 | 13.49 | 160 | 22.53 | 33.53 |
| | | | 0.674 | 17.12 | XXS | 27.57 | 41.03 |
| 4½ | 5.000 | 127.0 | 0.247 | 6.27 | 40 STD | 12.55 | 18.68 |
| | | | 0.355 | 9.02 | 80 XS | 17.63 | 26.23 |
| | | | 0.719 | 18.03 | XXS | 32.56 | 48.46 |

| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/Ft | Kg/m |
| 5 | 5.563 | 141.3 | 0.109 | 2.77 | 5 SS | 6.36 | 9.46 |
| | | | 0.125 | 3.18 | | 7.27 | 10.81 |
| | | | 0.134 | 3.40 | 10 10S | 7.78 | 11.57 |
| | | | 0.156 | 3.96 | | 9.02 | 13.42 |
| | | | 0.188 | 4.78 | | 10.80 | 16.08 |
| | | | 0.219 | 5.56 | | 12.51 | 18.62 |
| | | | 0.258 | 6.55 | 40 STD | 14.63 | 21.78 |
| | | | 0.281 | 7.14 | | 15.87 | 23.61 |
| | | | 0.312 | 7.92 | | 17.51 | 26.06 |
| | | | 0.344 | 8.74 | | 19.19 | 28.56 |
| | | | 0.375 | 9.53 | 80 XS | 20.60 | 30.95 |
| | | | 0.500 | 12.70 | 120 | 27.06 | 40.28 |
| | | | 0.625 | 15.88 | 160 | 32.99 | 49.10 |
| | | | 0.750 | 19.05 | XXS | 38.59 | 57.43 |
| 6 | 6.625 | 168.3 | 0.109 | 2.77 | 5 SS | 7.59 | 11.30 |
| | | | 0.120 | 3.05 | | 8.35 | 12.42 |
| | | | 0.125 | 3.18 | | 8.69 | 12.93 |
| | | | 0.134 | 3.40 | 10 10S | 9.30 | 13.84 |
| | | | 0.141 | 3.58 | | 9.77 | 14.55 |
| | | | 0.149 | 3.78 | | 10.32 | 15.35 |
| | | | 0.156 | 3.96 | | 10.79 | 16.06 |
| | | | 0.172 | 4.37 | | 11.87 | 17.66 |
| | | | 0.188 | 4.78 | | 12.94 | 19.25 |
| | | | 0.203 | 5.16 | | 13.94 | 20.74 |
| | | | 0.219 | 5.56 | | 15.00 | 22.32 |
| | | | 0.237 | 6.02 | | 16.19 | 24.09 |
| | | | 0.250 | 6.35 | | 17.04 | 25.36 |
| | | | 0.280 | 7.11 | 40 STD | 18.99 | 28.27 |
| | | | 0.312 | 7.92 | | 21.06 | 31.34 |
| | | | 0.344 | 8.74 | | 23.10 | 34.38 |
| | | | 0.375 | 9.53 | | 25.06 | 37.29 |
| | | | 0.432 | 10.97 | 80 XS | 28.60 | 42.56 |
| | | | 0.500 | 12.70 | | 32.74 | 48.72 |
| | | | 0.562 | 14.27 | 120 | 36.43 | 54.21 |
| | | | 0.625 | 15.88 | | 40.09 | 59.66 |
| | | | 0.719 | 18.26 | 160 | 45.40 | 67.56 |
| | | | 0.750 | 19.05 | | 47.11 | 70.10 |
| | | | 0.864 | 21.95 | XXS | 53.21 | 79.19 |
| | | | 0.875 | 22.23 | | 53.79 | 80.05 |
| 7 | 7.625 | 193.7 | 0.301 | 7.65 | STD | 23.57 | 35.07 |
| | | | 0.500 | 12.70 | XS | 38.09 | 56.68 |
| | | | 0.875 | 22.23 | XXS | 63.14 | 93.97 |
| 8 | 8.625 | 219.1 | 0.100 | 2.67 | | 9.56 | 14.23 |
| | | | 0.109 | 2.77 | 5 SS | 9.82 | 14.77 |
| | | | 0.120 | 3.05 | | 10.91 | 16.24 |
| | | | 0.125 | 3.18 | | 11.36 | 16.90 |
| | | | 0.134 | 3.40 | | 12.16 | 18.10 |
| | | | 0.141 | 3.58 | | 12.79 | 19.03 |
| | | | 0.148 | 3.76 | 10 10S | 13.41 | 19.96 |
| | | | 0.156 | 3.96 | | 14.12 | 21.02 |
| | | | 0.164 | 4.17 | | 14.83 | 22.08 |
| | | | 0.172 | 4.37 | | 15.54 | 23.13 |
| | | | 0.179 | 4.55 | | 16.16 | 24.05 |
| | | | 0.188 | 4.78 | | 16.96 | 25.24 |
| | | | 0.203 | 5.16 | | 18.28 | 27.20 |
| | | | 0.219 | 5.56 | | 19.68 | 29.29 |



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| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/ft | Kg/m |
| | | | 0.065 | 1.65 | 5 SS | 1.61 | 2.39 |
| | | | 0.109 | 2.77 | 10 10S | 2.64 | 3.93 |
| | | | 0.154 | 3.91 | 40 STD | 3.66 | 5.44 |
| | | | 0.172 | 4.37 | | 4.05 | 6.03 |
| | | | 0.188 | 4.78 | | 4.40 | 6.54 |
| 2 | 2.375 | 60.3 | 0.218 | 5.54 | 80 XS | 5.03 | 7.48 |
| | | | 0.250 | 6.35 | | 5.68 | 8.45 |
| | | | 0.281 | 7.14 | | 6.29 | 9.36 |
| | | | 0.344 | 8.74 | 160 | 7.47 | 11.12 |
| | | | 0.436 | 11.07 | XXS | 9.04 | 13.45 |
| | | | 0.083 | 2.11 | 5 SS | 2.48 | 3.69 |
| | | | 0.120 | 3.05 | 10 10S | 3.53 | 5.26 |
| | | | 0.203 | 5.16 | 40 STD | 5.80 | 8.63 |
| | | | 0.216 | 5.49 | | 6.14 | 9.14 |
| 2½ | 2.875 | 73.0 | 0.250 | 6.35 | | 7.02 | 10.44 |
| | | | 0.276 | 7.01 | 80 XS | 7.67 | 11.41 |
| | | | 0.375 | 9.53 | 160 | 10.02 | 14.92 |
| | | | 0.552 | 14.02 | XXS | 13.71 | 20.40 |
| | | | 0.083 | 2.11 | 5 SS | 3.03 | 4.51 |
| | | | 0.120 | 3.05 | 10 10S | 4.34 | 6.45 |
| | | | 0.125 | 3.18 | | 4.51 | 6.71 |
| | | | 0.156 | 3.96 | | 5.58 | 8.30 |
| | | | 0.188 | 4.78 | | 6.66 | 9.91 |
| 3 | 3.500 | 88.9 | 0.216 | 5.49 | 40 STD | 7.58 | 11.29 |
| | | | 0.250 | 6.35 | | 8.69 | 12.93 |
| | | | 0.281 | 7.14 | | 9.67 | 14.39 |
| | | | 0.300 | 7.62 | 80 XS | 10.26 | 15.27 |
| | | | 0.438 | 11.13 | 160 | 14.34 | 21.34 |
| | | | 0.600 | 15.24 | XXS | 18.80 | 27.68 |
| | | | 0.083 | 2.11 | 5 SS | 3.48 | 5.17 |
| | | | 0.120 | 3.05 | 10 10S | 4.98 | 7.41 |
| | | | 0.125 | 3.18 | | 5.18 | 7.71 |
| | | | 0.156 | 3.96 | | 6.41 | 9.54 |
| | | | 0.188 | 4.78 | | 7.66 | 11.40 |
| 3½ | 4.000 | 101.6 | 0.226 | 5.74 | 40 STD | 9.12 | 13.57 |
| | | | 0.250 | 6.35 | | 10.02 | 14.92 |
| | | | 0.281 | 7.14 | | 11.17 | 16.63 |
| | | | 0.318 | 8.08 | 80 XS | 12.52 | 18.63 |
| | | | 0.636 | 16.15 | XXS | 22.87 | 34.04 |
| | | | 0.083 | 2.11 | 5 SS | 3.92 | 5.83 |
| | | | 0.120 | 3.05 | 10 10S | 5.62 | 8.36 |
| | | | 0.125 | 3.18 | | 5.85 | 8.70 |
| | | | 0.156 | 3.96 | | 7.24 | 10.78 |
| | | | 0.188 | 4.78 | | 8.67 | 12.90 |
| | | | 0.219 | 5.56 | | 10.02 | 14.92 |
| | | | 0.237 | 6.02 | 40 STD | 10.80 | 16.07 |
| 4 | 4.500 | 114.3 | 0.250 | 6.35 | | 11.36 | 16.90 |
| | | | 0.281 | 7.14 | 60 | 12.67 | 18.86 |
| | | | 0.312 | 7.92 | | 13.97 | 20.79 |
| | | | 0.337 | 8.56 | 80 XS | 15.00 | 22.32 |
| | | | 0.438 | 11.13 | 120 | 19.02 | 28.31 |
| | | | 0.531 | 13.49 | 160 | 22.53 | 33.53 |
| | | | 0.674 | 17.12 | XXS | 27.57 | 41.03 |
| | | | 0.247 | 6.27 | 40 STD | 12.55 | 18.68 |
| 4½ | 5.000 | 127.0 | 0.355 | 9.02 | 80 XS | 17.63 | 26.23 |
| | | | 0.710 | 18.03 | XXS | 32.56 | 48.46 |

| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/ft | Kg/m |
| | | | 0.109 | 2.77 | 5 SS | 6.36 | 9.46 |
| | | | 0.125 | 3.18 | | 7.27 | 10.81 |
| | | | 0.134 | 3.40 | 10 10S | 7.78 | 11.57 |
| | | | 0.156 | 3.96 | | 9.02 | 13.42 |
| | | | 0.188 | 4.78 | | 10.80 | 16.08 |
| | | | 0.219 | 5.56 | | 12.51 | 18.62 |
| 5 | 5.563 | 141.3 | 0.258 | 6.55 | 40 STD | 14.63 | 21.78 |
| | | | 0.281 | 7.14 | | 15.87 | 23.61 |
| | | | 0.312 | 7.92 | | 17.51 | 26.06 |
| | | | 0.344 | 8.74 | | 19.19 | 28.56 |
| | | | 0.375 | 9.53 | 80 XS | 20.80 | 30.95 |
| | | | 0.500 | 12.70 | 120 | 27.06 | 40.28 |
| | | | 0.625 | 15.88 | 160 | 32.99 | 49.10 |
| | | | 0.750 | 19.05 | XXS | 38.59 | 57.43 |
| | | | 0.109 | 2.77 | 5 SS | 7.39 | 11.00 |
| | | | 0.120 | 3.05 | | 8.35 | 12.42 |
| | | | 0.125 | 3.18 | | 8.69 | 12.93 |
| | | | 0.134 | 3.40 | 10 10S | 9.30 | 13.84 |
| | | | 0.141 | 3.58 | | 9.77 | 14.55 |
| | | | 0.149 | 3.78 | | 10.32 | 15.35 |
| | | | 0.156 | 3.96 | | 10.78 | 16.06 |
| | | | 0.172 | 4.37 | | 11.87 | 17.66 |
| | | | 0.188 | 4.78 | | 12.94 | 19.25 |
| | | | 0.203 | 5.16 | | 13.94 | 20.74 |
| | | | 0.219 | 5.56 | | 15.00 | 22.32 |
| | | | 0.237 | 6.02 | | 16.18 | 24.09 |
| 6 | 6.625 | 168.3 | 0.250 | 6.35 | | 17.04 | 25.36 |
| | | | 0.280 | 7.11 | 40 STD | 18.99 | 28.27 |
| | | | 0.312 | 7.92 | | 21.06 | 31.34 |
| | | | 0.344 | 8.74 | | 23.10 | 34.38 |
| | | | 0.375 | 9.53 | | 25.06 | 37.29 |
| | | | 0.432 | 10.97 | 80 XS | 28.60 | 42.56 |
| | | | 0.500 | 12.70 | | 32.74 | 48.72 |
| | | | 0.562 | 14.27 | 120 | 36.43 | 54.21 |
| | | | 0.625 | 15.88 | | 40.09 | 59.66 |
| | | | 0.719 | 18.26 | 160 | 45.40 | 67.56 |
| | | | 0.750 | 19.05 | | 47.11 | 70.10 |
| | | | 0.864 | 21.95 | XXS | 53.21 | 79.19 |
| | | | 0.875 | 22.23 | | 53.79 | 80.05 |
| | | | 0.301 | 7.65 | STD | 23.57 | 35.07 |
| 7 | 7.625 | 193.7 | 0.500 | 12.70 | XS | 38.09 | 56.68 |
| | | | 0.875 | 22.23 | XXS | 63.14 | 93.97 |
| | | | 0.105 | 2.67 | | 9.56 | 14.23 |
| | | | 0.109 | 2.77 | 5 SS | 9.92 | 14.77 |
| | | | 0.120 | 3.05 | | 10.91 | 16.24 |
| | | | 0.125 | 3.18 | | 11.36 | 16.90 |
| | | | 0.134 | 3.40 | | 12.18 | 18.10 |
| | | | 0.141 | 3.58 | | 12.79 | 19.03 |
| | | | 0.148 | 3.76 | 10 10S | 13.41 | 19.96 |
| | | | 0.156 | 3.96 | | 14.12 | 21.02 |
| | | | 0.164 | 4.17 | | 14.83 | 22.08 |
| | | | 0.172 | 4.37 | | 15.54 | 23.13 |
| | | | 0.179 | 4.55 | | 16.16 | 24.05 |
| | | | 0.188 | 4.78 | | 16.96 | 25.24 |
| | | | 0.203 | 5.16 | | 18.28 | 27.20 |
| | | | 0.219 | 5.56 | | 19.68 | 29.29 |



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| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/ft | Kg/m |
| | | | 0.237 | 6.02 | | 21.25 | 31.63 |
| | | | 0.250 | 6.35 | 20 | 22.38 | 33.31 |
| | | | 0.277 | 7.04 | 30 | 24.72 | 36.79 |
| | | | 0.312 | 7.92 | | 27.73 | 41.26 |
| | | | 0.322 | 8.18 | 40 STD | 28.58 | 42.54 |
| | | | 0.344 | 8.74 | | 30.45 | 45.32 |
| | | | 0.375 | 9.53 | | 33.07 | 49.22 |
| | | | 0.406 | 10.31 | 60 | 35.67 | 53.09 |
| | | | 0.438 | 11.13 | | 38.34 | 57.05 |
| 8 | 8.625 | 219.1 | 0.500 | 12.70 | 80 XS | 43.43 | 64.63 |
| | | | 0.562 | 14.27 | | 48.44 | 72.09 |
| | | | 0.594 | 15.09 | 100 | 51.00 | 75.90 |
| | | | 0.625 | 15.88 | | 53.45 | 79.55 |
| | | | 0.719 | 18.26 | 120 | 60.77 | 90.44 |
| | | | 0.750 | 19.05 | | 63.14 | 93.97 |
| | | | 0.812 | 20.62 | 140 | 67.82 | 100.93 |
| | | | 0.875 | 22.23 | XXS | 72.50 | 107.89 |
| | | | 0.906 | 23.01 | 160 | 74.77 | 111.26 |
| | | | 1.000 | 25.40 | | 81.52 | 121.31 |
| 9 | 9.625 | 244.5 | 0.342 | 8.69 | STD | 33.94 | 50.51 |
| | | | 0.500 | 12.70 | XS | 48.78 | 72.59 |
| | | | 0.134 | 3.40 | 5 SS | 15.21 | 22.63 |
| | | | 0.141 | 3.58 | | 15.99 | 23.80 |
| | | | 0.149 | 3.78 | | 16.89 | 25.13 |
| | | | 0.156 | 3.96 | | 17.67 | 26.29 |
| | | | 0.165 | 4.19 | 10 10S | 18.67 | 27.79 |
| | | | 0.179 | 4.55 | | 20.23 | 30.10 |
| | | | 0.188 | 4.78 | | 21.23 | 31.59 |
| | | | 0.203 | 5.16 | | 22.89 | 34.06 |
| | | | 0.219 | 5.56 | | 24.66 | 36.69 |
| | | | 0.250 | 6.35 | 20 | 28.06 | 41.76 |
| | | | 0.279 | 7.09 | | 31.23 | 46.48 |
| | | | 0.307 | 7.80 | 30 | 34.27 | 51.01 |
| | | | 0.312 | 7.92 | | 34.82 | 51.81 |
| | | | 0.322 | 8.18 | | 35.90 | 53.42 |
| | | | 0.344 | 8.74 | | 38.27 | 56.95 |
| 10 | 10.750 | 273.1 | 0.365 | 9.27 | 40 STD | 40.52 | 60.31 |
| | | | 0.375 | 9.53 | | 41.59 | 61.90 |
| | | | 0.438 | 11.13 | | 48.29 | 71.86 |
| | | | 0.500 | 12.70 | 60 XS | 54.79 | 81.54 |
| | | | 0.562 | 14.27 | | 61.21 | 91.09 |
| | | | 0.594 | 15.09 | 80 | 64.49 | 95.98 |
| | | | 0.625 | 15.88 | | 67.65 | 100.68 |
| | | | 0.719 | 18.26 | 100 | 77.11 | 114.74 |
| | | | 0.812 | 20.62 | | 86.27 | 128.39 |
| | | | 0.844 | 21.44 | 120 | 89.58 | 133.02 |
| | | | 0.875 | 22.23 | | 92.38 | 137.47 |
| | | | 0.938 | 23.83 | | 98.39 | 146.43 |
| | | | 1.000 | 25.40 | 140 XXS | 104.24 | 155.12 |
| | | | 1.125 | 28.58 | 160 | 115.76 | 172.27 |
| | | | 1.250 | 31.75 | | 126.95 | 188.93 |
| 11 | 11.750 | 298.5 | 0.375 | 9.53 | STD | 45.60 | 67.86 |
| | | | 0.500 | 12.70 | XS | 60.14 | 89.49 |
| | | | 0.105 | 2.67 | | 14.19 | 21.12 |
| 12 | 12.750 | 323.9 | 0.134 | 3.40 | | 18.07 | 26.90 |
| | | | 0.156 | 3.96 | 5S | 21.00 | 31.26 |

| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/ft | Kg/m |
| | | | 0.165 | 4.19 | 5 | 22.20 | 33.04 |
| | | | 0.172 | 4.37 | | 23.13 | 34.42 |
| | | | 0.180 | 4.57 | 10 10S | 24.19 | 36.00 |
| | | | 0.188 | 4.78 | | 25.25 | 37.57 |
| | | | 0.203 | 5.16 | | 27.23 | 40.52 |
| | | | 0.219 | 5.56 | | 29.34 | 43.66 |
| | | | 0.237 | 6.02 | | 31.70 | 47.18 |
| | | | 0.250 | 6.35 | 20 | 33.41 | 49.72 |
| | | | 0.281 | 7.14 | | 37.48 | 55.74 |
| | | | 0.297 | 7.54 | | 39.54 | 58.84 |
| | | | 0.312 | 7.92 | | 41.49 | 61.74 |
| | | | 0.330 | 8.38 | 30 | 43.82 | 65.21 |
| | | | 0.344 | 8.74 | | 45.62 | 67.90 |
| | | | 0.375 | 9.53 | STD | 49.61 | 73.83 |
| 12 | 12.750 | 323.9 | 0.406 | 10.31 | 40 | 53.58 | 79.73 |
| | | | 0.438 | 11.13 | | 57.65 | 85.80 |
| | | | 0.500 | 12.70 | XS | 65.48 | 97.45 |
| | | | 0.562 | 14.27 | 60 | 73.23 | 108.98 |
| | | | 0.625 | 15.88 | | 81.00 | 120.57 |
| | | | 0.688 | 17.48 | 80 | 88.72 | 132.03 |
| | | | 0.750 | 19.05 | | 96.22 | 143.19 |
| | | | 0.812 | 20.62 | | 103.63 | 154.22 |
| | | | 0.844 | 21.44 | 100 | 107.43 | 159.87 |
| | | | 0.875 | 22.23 | | 111.09 | 165.31 |
| | | | 0.938 | 23.83 | | 118.45 | 176.27 |
| | | | 1.000 | 25.40 | 120 XXS | 125.62 | 186.94 |
| | | | 1.062 | 26.97 | | 132.70 | 197.48 |
| | | | 1.125 | 28.58 | 140 | 139.82 | 208.07 |
| | | | 1.250 | 31.75 | | 153.68 | 228.70 |
| | | | 1.312 | 33.32 | 160 | 160.43 | 238.75 |
| | | | 0.105 | 2.67 | | 15.80 | 23.21 |
| | | | 0.134 | 3.40 | | 19.86 | 29.56 |
| | | | 0.156 | 3.96 | 5S | 23.09 | 34.36 |
| | | | 0.164 | 4.17 | | 24.26 | 36.10 |
| | | | 0.179 | 4.55 | | 26.45 | 39.36 |
| | | | 0.188 | 4.78 | 10S | 27.76 | 41.31 |
| | | | 0.203 | 5.16 | | 29.94 | 44.56 |
| | | | 0.210 | 5.33 | | 30.96 | 46.07 |
| | | | 0.219 | 5.56 | | 32.27 | 48.02 |
| | | | 0.250 | 6.35 | 10 | 36.75 | 54.69 |
| | | | 0.281 | 7.14 | | 41.21 | 61.33 |
| | | | 0.312 | 7.92 | 20 | 45.66 | 67.94 |
| | | | 0.344 | 8.74 | | 50.22 | 74.74 |
| | | | 0.375 | 9.53 | 30 STD | 54.62 | 81.29 |
| | | | 0.406 | 10.31 | | 59.00 | 87.81 |
| | | | 0.438 | 11.13 | 40 | 63.50 | 94.51 |



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Industriales, S. de R.L. de C.V.

| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/ft | Kg/m |
| | | | 0.469 | 11.91 | | 67.84 | 100.96 |
| | | | 0.500 | 12.70 | XS | 72.16 | 107.39 |
| | | | 0.562 | 14.27 | | 80.74 | 120.15 |
| | | | 0.594 | 15.09 | 60 | 85.13 | 126.69 |
| | | | 0.625 | 15.88 | | 89.37 | 132.99 |
| | | | 0.688 | 17.48 | | 97.91 | 145.71 |
| | | | 0.750 | 19.05 | 80 | 106.24 | 158.10 |
| | | | 0.812 | 20.62 | | 114.48 | 170.37 |
| | | | 0.875 | 22.23 | | 122.78 | 182.71 |
| 14 | 14.000 | 355.6 | 0.938 | 23.83 | 100 | 130.99 | 194.93 |
| | | | 1.000 | 25.40 | | 139.98 | 206.83 |
| | | | 1.062 | 26.97 | | 148.89 | 218.60 |
| | | | 1.094 | 27.79 | 120 | 150.94 | 224.63 |
| | | | 1.125 | 28.58 | | 154.85 | 230.44 |
| | | | 1.250 | 31.75 | 140 | 170.38 | 253.56 |
| | | | 1.406 | 35.71 | 160 | 189.30 | 281.71 |
| | | | 2.000 | 50.80 | | 256.58 | 381.83 |
| | | | 2.125 | 53.98 | | 269.78 | 401.47 |
| | | | 2.200 | 55.88 | | 277.53 | 413.01 |
| | | | 2.500 | 63.50 | | 307.36 | 457.40 |
| | | | 0.134 | 3.40 | | 22.73 | 33.82 |
| | | | 0.165 | 4.19 | 5S | 27.93 | 41.57 |
| | | | 0.188 | 4.78 | 10S | 31.78 | 47.29 |
| | | | 0.203 | 5.16 | | 34.28 | 51.02 |
| | | | 0.219 | 5.56 | | 36.95 | 54.98 |
| | | | 0.250 | 6.35 | 10 | 42.09 | 62.64 |
| | | | 0.281 | 7.14 | | 47.22 | 70.27 |
| | | | 0.312 | 7.92 | 20 | 52.33 | 77.87 |
| | | | 0.344 | 8.74 | | 57.58 | 85.68 |
| | | | 0.375 | 9.53 | 30 STD | 62.64 | 93.22 |
| | | | 0.406 | 10.31 | | 67.69 | 100.73 |
| | | | 0.438 | 11.13 | | 72.87 | 108.44 |
| | | | 0.469 | 11.91 | | 77.87 | 115.89 |
| | | | 0.500 | 12.70 | 40 XS | 82.85 | 123.30 |
| | | | 0.562 | 14.27 | | 92.75 | 138.03 |
| | | | 0.625 | 15.88 | | 102.73 | 152.88 |
| 16 | 16.000 | 406.4 | 0.656 | 16.66 | 60 | 107.61 | 160.14 |
| | | | 0.688 | 17.48 | | 112.62 | 167.60 |
| | | | 0.750 | 19.05 | | 122.28 | 181.97 |
| | | | 0.812 | 20.62 | | 131.85 | 196.21 |
| | | | 0.844 | 21.44 | 80 | 136.75 | 203.51 |
| | | | 0.875 | 22.23 | | 141.49 | 210.55 |
| | | | 0.938 | 23.83 | | 151.04 | 224.77 |
| | | | 1.000 | 25.40 | | 160.36 | 238.64 |
| | | | 1.031 | 26.19 | 100 | 164.99 | 245.53 |
| | | | 1.062 | 26.97 | | 169.60 | 252.39 |
| | | | 1.125 | 28.58 | | 178.90 | 266.24 |
| | | | 1.188 | 30.18 | | 188.12 | 279.96 |
| | | | 1.219 | 30.96 | 120 | 192.60 | 286.66 |
| | | | 1.250 | 31.75 | | 197.11 | 293.33 |
| | | | 1.438 | 36.53 | 140 | 223.87 | 333.15 |
| | | | 1.594 | 40.49 | 160 | 245.49 | 365.34 |
| | | | 0.165 | 4.19 | 5S | 31.46 | 46.82 |
| | | | 0.188 | 4.78 | 10S | 35.80 | 53.28 |
| 18 | 18.000 | 457.2 | 0.219 | 5.56 | | 41.63 | 61.95 |
| | | | 0.250 | 6.35 | 10 | 47.44 | 70.60 |
| | | | 0.281 | 7.14 | | 53.23 | 79.21 |

| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/ft | Kg/m |
| | | | 0.312 | 7.92 | 20 | 59.00 | 87.80 |
| | | | 0.344 | 8.74 | | 64.93 | 96.63 |
| | | | 0.375 | 9.53 | STD | 70.66 | 105.15 |
| | | | 0.406 | 10.31 | | 76.37 | 113.65 |
| | | | 0.438 | 11.13 | 30 | 82.24 | 122.38 |
| | | | 0.469 | 11.91 | | 87.90 | 130.81 |
| | | | 0.500 | 12.70 | XS | 93.54 | 139.21 |
| | | | 0.562 | 14.27 | 40 | 104.77 | 155.92 |
| | | | 0.625 | 15.88 | | 116.10 | 172.77 |
| | | | 0.688 | 17.48 | | 127.33 | 189.49 |
| | | | 0.750 | 19.05 | 60 | 138.31 | 205.83 |
| 18 | 18.000 | 457.2 | 0.812 | 20.62 | | 149.21 | 222.05 |
| | | | 0.875 | 22.23 | | 160.19 | 238.40 |
| | | | 0.938 | 23.83 | 80 | 171.10 | 254.62 |
| | | | 1.000 | 25.40 | | 181.74 | 270.46 |
| | | | 1.062 | 26.97 | | 192.31 | 286.19 |
| | | | 1.125 | 28.58 | | 202.96 | 302.03 |
| | | | 1.156 | 29.36 | 100 | 208.17 | 309.79 |
| | | | 1.188 | 30.18 | | 213.52 | 317.76 |
| | | | 1.250 | 31.75 | | 223.84 | 333.11 |
| | | | 1.375 | 34.93 | 120 | 244.38 | 363.68 |
| | | | 1.562 | 39.67 | 140 | 274.50 | 408.50 |
| | | | 1.781 | 45.24 | 160 | 308.81 | 459.57 |
| | | | 0.188 | 4.78 | 5S | 39.82 | 59.26 |
| | | | 0.219 | 5.56 | 10S | 46.31 | 68.90 |
| | | | 0.250 | 6.35 | 10 | 52.79 | 78.55 |
| | | | 0.281 | 7.14 | | 59.24 | 88.16 |
| | | | 0.312 | 7.92 | | 65.67 | 97.73 |
| | | | 0.344 | 8.74 | | 72.29 | 107.58 |
| | | | 0.375 | 9.53 | 20 STD | 78.68 | 117.09 |
| | | | 0.406 | 10.31 | | 85.05 | 126.56 |
| | | | 0.438 | 11.13 | | 91.60 | 136.32 |
| | | | 0.469 | 11.91 | | 97.90 | 145.73 |
| | | | 0.500 | 12.70 | 30 XS | 104.24 | 155.12 |
| | | | 0.562 | 14.27 | | 116.79 | 173.80 |
| | | | 0.594 | 15.09 | 40 | 123.25 | 183.39 |
| | | | 0.625 | 15.88 | | 129.46 | 192.66 |
| | | | 0.688 | 17.48 | | 142.04 | 211.39 |
| 20 | 20.000 | 508.0 | 0.750 | 19.05 | | 154.35 | 229.70 |
| | | | 0.812 | 20.62 | 60 | 166.57 | 247.88 |
| | | | 0.875 | 22.23 | | 178.90 | 266.24 |
| | | | 0.938 | 23.83 | | 191.15 | 284.47 |
| | | | 1.000 | 25.40 | | 203.12 | 302.28 |
| | | | 1.031 | 26.19 | 80 | 209.08 | 311.15 |
| | | | 1.062 | 26.97 | | 215.01 | 319.98 |
| | | | 1.125 | 28.58 | | 227.01 | 337.83 |
| | | | 1.188 | 30.18 | | 238.92 | 355.56 |
| | | | 1.250 | 31.75 | | 250.57 | 372.88 |
| | | | 1.281 | 32.54 | 100 | 256.35 | 381.50 |
| | | | 1.312 | 33.32 | | 262.12 | 390.08 |
| | | | 1.375 | 34.93 | | 273.78 | 407.44 |
| | | | 1.500 | 38.10 | 120 | 296.67 | 441.49 |
| | | | 1.750 | 44.45 | 140 | 341.44 | 508.11 |
| | | | 1.969 | 50.01 | 160 | 379.56 | 564.84 |
| | | | 0.250 | 6.35 | 10 | 58.13 | 86.51 |
| 22 | 22.000 | 558.8 | 0.281 | 7.14 | | 65.25 | 97.10 |
| | | | 0.312 | 7.92 | | 72.34 | 107.66 |



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Industriales, S. de R.L. de C.V.

| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/Ft | Kg/m |
| | | | 0.344 | 8.74 | STD | 79.64 | 118.52 |
| | | | 0.375 | 9.53 | 20 | 86.70 | 129.02 |
| | | | 0.406 | 10.31 | | 93.73 | 139.48 |
| | | | 0.438 | 11.13 | | 100.97 | 150.25 |
| | | | 0.469 | 11.91 | | 107.96 | 160.66 |
| | | | 0.500 | 12.70 | 30 XS | 114.93 | 171.03 |
| | | | 0.562 | 14.27 | | 128.80 | 191.68 |
| | | | 0.625 | 15.88 | | 142.82 | 212.54 |
| | | | 0.688 | 17.48 | | 156.76 | 233.28 |
| | | | 0.750 | 19.05 | | 170.38 | 253.56 |
| | | | 0.812 | 20.62 | | 183.93 | 273.72 |
| | | | 0.875 | 22.23 | 60 | 197.61 | 294.08 |
| 22 | 22.000 | 558.8 | 0.938 | 23.83 | | 211.21 | 314.31 |
| | | | 1.000 | 25.40 | | 224.51 | 334.10 |
| | | | 1.062 | 26.97 | | 237.72 | 353.77 |
| | | | 1.125 | 28.58 | 80 | 251.67 | 373.63 |
| | | | 1.188 | 30.18 | | 264.33 | 393.36 |
| | | | 1.250 | 31.75 | | 277.29 | 412.66 |
| | | | 1.312 | 33.32 | | 290.18 | 431.83 |
| | | | 1.375 | 34.93 | 100 | 303.18 | 451.19 |
| | | | 1.438 | 36.53 | | 316.11 | 470.42 |
| | | | 1.500 | 38.10 | | 328.74 | 489.22 |
| | | | 1.625 | 41.28 | 120 | 353.97 | 526.76 |
| | | | 1.875 | 47.63 | 140 | 403.41 | 600.34 |
| | | | 2.125 | 53.98 | 160 | 451.52 | 671.93 |
| | | | 0.219 | 5.54 | 5S | 55.43 | 82.48 |
| | | | 0.250 | 6.35 | 10 | 63.48 | 94.46 |
| | | | 0.281 | 7.14 | | 71.25 | 106.04 |
| | | | 0.312 | 7.92 | | 79.01 | 117.58 |
| | | | 0.344 | 8.74 | | 87.00 | 129.47 |
| | | | 0.375 | 9.53 | 20 STD | 94.71 | 140.95 |
| | | | 0.406 | 10.31 | | 102.41 | 152.40 |
| | | | 0.438 | 11.13 | | 110.33 | 164.19 |
| | | | 0.469 | 11.91 | | 117.98 | 175.58 |
| | | | 0.500 | 12.70 | XS | 125.62 | 186.94 |
| | | | 0.562 | 14.27 | 30 | 140.82 | 209.56 |
| | | | 0.625 | 15.88 | | 156.19 | 232.43 |
| | | | 0.688 | 17.48 | 40 | 171.47 | 255.17 |
| | | | 0.750 | 19.05 | | 186.42 | 277.42 |
| | | | 0.812 | 20.62 | | 201.29 | 299.56 |
| | | | 0.875 | 22.23 | | 216.32 | 321.92 |
| 24 | 24.000 | 609.6 | 0.938 | 23.83 | | 231.26 | 344.16 |
| | | | 0.969 | 24.61 | 60 | 238.59 | 355.06 |
| | | | 1.000 | 25.40 | | 245.89 | 365.92 |
| | | | 1.062 | 26.97 | | 260.43 | 387.56 |
| | | | 1.125 | 28.58 | | 275.12 | 409.42 |
| | | | 1.188 | 30.18 | | 289.73 | 431.14 |
| | | | 1.219 | 30.96 | 80 | 296.88 | 441.81 |
| | | | 1.250 | 31.75 | | 304.02 | 452.43 |
| | | | 1.312 | 33.32 | | 318.23 | 473.58 |
| | | | 1.375 | 34.93 | | 332.58 | 494.94 |
| | | | 1.438 | 36.53 | | 346.85 | 516.18 |
| | | | 1.500 | 38.10 | | 360.81 | 536.95 |
| | | | 1.531 | 38.89 | 100 | 367.76 | 547.29 |
| | | | 1.562 | 39.67 | | 374.69 | 557.60 |
| | | | 1.812 | 46.02 | 120 | 429.82 | 639.64 |
| | | | 2.062 | 52.37 | 140 | 483.61 | 719.69 |
| | | | 2.343 | 59.51 | 160 | 542.48 | 807.29 |

| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/Ft | Kg/m |
| | | | 0.250 | 6.35 | | 68.82 | 102.42 |
| | | | 0.281 | 7.14 | | 77.26 | 114.98 |
| | | | 0.312 | 7.92 | 10 | 85.68 | 127.51 |
| | | | 0.344 | 8.74 | | 94.35 | 140.41 |
| | | | 0.375 | 9.53 | STD | 102.73 | 152.88 |
| | | | 0.406 | 10.31 | | 111.09 | 165.32 |
| | | | 0.438 | 11.13 | | 119.70 | 178.13 |
| | | | 0.469 | 11.91 | | 128.01 | 190.50 |
| 26 | 26.000 | 660.4 | 0.500 | 12.70 | 20 XS | 136.31 | 202.85 |
| | | | 0.562 | 14.27 | | 152.84 | 227.45 |
| | | | 0.625 | 15.88 | | 169.55 | 252.32 |
| | | | 0.688 | 17.48 | | 186.18 | 277.06 |
| | | | 0.750 | 19.05 | | 202.46 | 301.29 |
| | | | 0.812 | 20.62 | | 218.66 | 325.39 |
| | | | 0.875 | 22.23 | | 235.03 | 349.76 |
| | | | 0.938 | 23.83 | | 251.32 | 374.01 |
| | | | 1.000 | 25.40 | | 267.27 | 397.74 |
| | | | 0.250 | 6.35 | | 74.17 | 110.37 |
| | | | 0.281 | 7.14 | | 83.27 | 123.92 |
| | | | 0.312 | 7.92 | 10 | 92.35 | 137.44 |
| | | | 0.344 | 8.74 | | 101.71 | 151.36 |
| | | | 0.375 | 9.53 | STD | 110.75 | 164.81 |
| | | | 0.406 | 10.31 | | 119.77 | 178.24 |
| | | | 0.438 | 11.13 | | 129.06 | 192.06 |
| | | | 0.469 | 11.91 | | 138.04 | 205.43 |
| 28 | 28.000 | 711.2 | 0.500 | 12.70 | 20 XS | 147.00 | 218.76 |
| | | | 0.562 | 14.27 | | 164.85 | 245.33 |
| | | | 0.625 | 15.88 | 30 | 182.91 | 272.20 |
| | | | 0.688 | 17.48 | | 200.89 | 298.95 |
| | | | 0.750 | 19.05 | | 218.49 | 325.15 |
| | | | 0.812 | 20.62 | | 236.02 | 351.23 |
| | | | 0.875 | 22.23 | | 253.74 | 377.61 |
| | | | 0.938 | 23.83 | | 271.38 | 403.85 |
| | | | 1.000 | 25.40 | | 288.65 | 429.56 |
| | | | 0.250 | 6.35 | 5S | 79.51 | 118.33 |
| | | | 0.281 | 7.14 | | 89.28 | 132.86 |
| | | | 0.312 | 7.92 | 10 10S | 99.03 | 147.37 |
| | | | 0.344 | 8.74 | | 109.06 | 162.30 |
| | | | 0.375 | 9.53 | STD | 118.77 | 176.75 |
| | | | 0.406 | 10.31 | | 128.45 | 191.16 |
| | | | 0.438 | 11.13 | | 138.43 | 206.00 |
| | | | 0.469 | 11.91 | | 148.07 | 220.35 |
| 30 | 30.000 | 762.0 | 0.500 | 12.70 | 20 XS | 157.69 | 234.67 |
| | | | 0.562 | 14.27 | | 176.87 | 263.21 |
| | | | 0.625 | 15.88 | 30 | 196.28 | 292.09 |



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| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/ft | Kg/m |
| | | | 0.688 | 17.48 | | 215.60 | 320.84 |
| | | | 0.750 | 19.05 | | 234.53 | 349.02 |
| | | | 0.812 | 20.62 | | 253.38 | 377.07 |
| | | | 0.875 | 22.23 | | 272.45 | 405.45 |
| | | | 0.938 | 23.83 | | 291.43 | 433.70 |
| 30 | 30.000 | 762.0 | 1.000 | 25.40 | | 310.03 | 461.38 |
| | | | 1.062 | 26.97 | | 328.55 | 488.94 |
| | | | 1.125 | 28.58 | | 347.28 | 516.81 |
| | | | 1.188 | 30.18 | | 365.90 | 544.57 |
| | | | 1.250 | 31.75 | | 384.20 | 571.75 |
| | | | 1.375 | 34.93 | | 420.78 | 626.19 |
| | | | 1.500 | 38.10 | | 457.03 | 680.14 |
| | | | 0.250 | 6.35 | | 84.86 | 126.28 |
| | | | 0.281 | 7.14 | | 95.29 | 141.80 |
| | | | 0.312 | 7.92 | 10 | 105.70 | 157.29 |
| | | | 0.344 | 8.74 | | 116.42 | 173.25 |
| | | | 0.375 | 9.53 | STD | 126.79 | 188.68 |
| | | | 0.406 | 10.31 | | 137.13 | 204.08 |
| | | | 0.438 | 11.13 | | 147.79 | 219.94 |
| | | | 0.500 | 12.70 | 20 XS | 168.38 | 250.58 |
| | | | 0.562 | 14.27 | | 188.89 | 281.09 |
| 32 | 32.000 | 812.8 | 0.625 | 15.88 | 30 | 209.64 | 311.96 |
| | | | 0.688 | 17.48 | 40 | 230.31 | 342.74 |
| | | | 0.750 | 19.05 | | 250.57 | 372.86 |
| | | | 0.812 | 20.62 | | 270.74 | 402.91 |
| | | | 0.875 | 22.23 | | 291.16 | 433.29 |
| | | | 0.938 | 23.83 | | 311.49 | 463.55 |
| | | | 1.000 | 25.40 | | 331.41 | 493.20 |
| | | | 1.062 | 26.97 | | 351.26 | 522.73 |
| | | | 1.125 | 28.58 | | 371.34 | 552.61 |
| | | | 1.188 | 30.18 | | 391.33 | 582.37 |
| | | | 1.250 | 31.75 | | 410.93 | 611.53 |
| | | | 0.250 | 6.35 | | 90.20 | 134.24 |
| | | | 0.281 | 7.14 | | 101.30 | 150.74 |
| | | | 0.312 | 7.92 | 10 | 112.37 | 167.22 |
| | | | 0.344 | 8.74 | | 123.77 | 184.20 |
| | | | 0.375 | 9.53 | STD | 134.80 | 200.61 |
| | | | 0.406 | 10.31 | | 145.81 | 216.99 |
| | | | 0.438 | 11.13 | | 157.16 | 233.87 |
| | | | 0.469 | 11.91 | | 168.12 | 250.20 |
| | | | 0.500 | 12.70 | 20 XS | 179.01 | 266.49 |
| | | | 0.562 | 14.27 | | 200.90 | 298.96 |
| 34 | 34.000 | 863.6 | 0.625 | 15.88 | 30 | 223.00 | 331.87 |
| | | | 0.688 | 17.48 | 40 | 245.02 | 364.63 |
| | | | 0.750 | 19.05 | | 266.60 | 396.75 |
| | | | 0.812 | 20.62 | | 288.10 | 428.74 |
| | | | 0.875 | 22.23 | | 309.87 | 461.13 |
| | | | 0.938 | 23.83 | | 331.54 | 493.39 |
| | | | 1.000 | 25.40 | | 352.80 | 525.02 |
| | | | 1.062 | 26.97 | | 373.97 | 556.52 |
| | | | 1.125 | 28.58 | | 395.39 | 588.41 |
| | | | 1.188 | 30.18 | | 416.73 | 620.17 |
| | | | 1.250 | 31.75 | | 437.65 | 651.30 |
| | | | 0.250 | 6.35 | | 95.55 | 142.19 |
| 36 | 36.000 | 914.4 | 0.281 | 7.14 | | 107.30 | 159.69 |
| | | | 0.312 | 7.92 | 10 | 119.04 | 177.15 |

| DIÁMETRO NOMINAL | DIÁMETRO EXTERIOR | | ESPESOR DE PARED | | CÉDULA | PESO | |
|---|---|---|---|---|---|---|---|
| in | in | mm | in | mm | | Lb/ft | Kg/m |
| | | | 0.344 | 8.74 | | 131.10 | 195.14 |
| | | | 0.375 | 9.53 | STD | 142.82 | 212.54 |
| | | | 0.406 | 10.31 | | 154.49 | 229.91 |
| | | | 0.438 | 11.13 | | 166.52 | 247.81 |
| | | | 0.469 | 11.91 | | 178.15 | 265.12 |
| | | | 0.500 | 12.70 | XS | 189.76 | 282.40 |
| | | | 0.562 | 14.27 | | 212.92 | 316.86 |
| | | | 0.625 | 15.88 | 30 | 236.37 | 351.75 |
| | | | 0.688 | 17.48 | | 259.73 | 386.52 |
| 36 | 36.000 | 914.4 | 0.750 | 19.05 | 40 | 282.84 | 420.61 |
| | | | 0.812 | 20.62 | | 305.90 | 454.58 |
| | | | 0.875 | 22.23 | | 329.57 | 490.67 |
| | | | 0.938 | 23.83 | | 351.60 | 523.24 |
| | | | 1.000 | 25.40 | | 374.18 | 556.84 |
| | | | 1.062 | 26.97 | | 396.67 | 590.31 |
| | | | 1.125 | 28.58 | | 419.45 | 624.21 |
| | | | 1.188 | 30.18 | | 442.14 | 657.87 |
| | | | 1.250 | 31.75 | | 464.36 | 691.06 |
| | | | 1.375 | 34.93 | | 508.98 | 757.45 |
| | | | 1.500 | 38.10 | | 553.25 | 823.32 |
| | | | 0.250 | 6.35 | | 111.59 | 166.06 |
| | | | 0.344 | 8.74 | | 153.20 | 227.98 |
| | | | 0.375 | 9.53 | STD | 166.99 | 248.54 |
| | | | 0.406 | 10.31 | | 180.54 | 268.67 |
| | | | 0.438 | 11.13 | | 194.62 | 289.62 |
| | | | 0.469 | 11.91 | | 208.24 | 309.89 |
| | | | 0.500 | 12.70 | XS | 221.83 | 330.13 |
| | | | 0.562 | 14.27 | | 248.97 | 370.51 |
| | | | 0.625 | 15.88 | | 276.46 | 411.41 |
| | | | 0.688 | 17.48 | | 303.86 | 452.19 |
| 42 | 42.000 | 1,066.8 | 0.750 | 19.05 | | 330.75 | 492.20 |
| | | | 0.812 | 20.62 | | 357.55 | 532.09 |
| | | | 0.875 | 22.23 | | 384.70 | 572.50 |
| | | | 0.938 | 23.83 | | 411.77 | 612.78 |
| | | | 1.000 | 25.40 | | 438.32 | 652.30 |
| | | | 1.062 | 26.97 | | 464.79 | 691.69 |
| | | | 1.125 | 28.58 | | 491.61 | 731.60 |
| | | | 1.188 | 30.18 | | 518.34 | 771.37 |
| | | | 1.250 | 31.75 | | 544.56 | 810.40 |
| | | | 1.500 | 38.10 | | 649.47 | 966.51 |
| | | | 0.344 | 8.74 | | 175.26 | 260.82 |
| | | | 0.375 | 9.53 | STD | 190.83 | 284.14 |
| | | | 0.406 | 10.31 | | 206.58 | 307.42 |
| | | | 0.438 | 11.13 | | 222.71 | 331.43 |
| | | | 0.469 | 11.91 | | 238.32 | 354.66 |
| | | | 0.500 | 12.70 | XS | 253.81 | 377.65 |
| | | | 0.562 | 14.27 | | 285.02 | 424.15 |
| | | | 0.625 | 15.88 | | 316.55 | 471.07 |
| | | | 0.688 | 17.48 | | 347.99 | 517.87 |
| 48 | 48.000 | 1,219.2 | 0.750 | 19.05 | | 378.85 | 563.80 |
| | | | 0.812 | 20.62 | | 409.64 | 609.60 |
| | | | 0.875 | 22.23 | | 440.81 | 656.02 |
| | | | 0.938 | 23.83 | | 471.84 | 702.32 |
| | | | 1.000 | 25.40 | | 502.47 | 747.75 |
| | | | 1.062 | 26.97 | | 532.92 | 793.07 |
| | | | 1.125 | 28.58 | | 563.77 | 838.99 |
| | | | 1.188 | 30.18 | | 594.54 | 884.78 |
| | | | 1.250 | 31.75 | | 624.74 | 929.72 |
| | | | 1.500 | 38.10 | | 745.68 | 1109.70 |
| | | | 2.000 | 50.80 | | 983.55 | 1463.69 |



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**BRIDA WN 150LBS SCH. STD**

| DN | D | b | g | m | a | J° | h | k | N° tal. | l | Peso (kg.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/2" | 88,9 | 11,1 | 34,9 | 30,2 | 21,3 | 15,7 | 46,6 | 60,3 | 4 | 15,9 | 0,500 |
| 3/4" | 98,4 | 12,7 | 42,9 | 38,1 | 26,7 | 20,8 | 52,4 | 69,8 | 4 | 15,9 | 0,700 |
| 1" | 107,9 | 14,3 | 50,8 | 49,2 | 33,5 | 26,7 | 55,6 | 79,4 | 4 | 15,9 | 1,100 |
| 1.1/4" | 117,5 | 15,9 | 63,5 | 58,8 | 42,2 | 35,1 | 57,1 | 88,9 | 4 | 15,9 | 1,500 |
| 1.1/2" | 127,0 | 17,5 | 73,0 | 65,1 | 48,3 | 40,9 | 61,9 | 98,4 | 4 | 15,9 | 1,800 |
| 2" | 152,4 | 19,0 | 92,1 | 77,8 | 60,3 | 52,6 | 63,5 | 120,6 | 4 | 19,0 | 2,700 |
| 2.1/2" | 177,8 | 22,2 | 104,8 | 90,5 | 73,1 | 62,7 | 69,8 | 139,7 | 4 | 19,0 | 4,400 |
| 3" | 190,5 | 23,8 | 127,0 | 107,9 | 88,9 | 78,0 | 69,8 | 152,4 | 4 | 19,0 | 5,200 |
| 3.1/2" | 215,9 | 23,8 | 139,7 | 122,2 | 101,6 | 90,2 | 71,4 | 177,8 | 8 | 19,0 | 6,400 |
| 4" | 228,6 | 23,8 | 157,2 | 134,9 | 114,3 | 102,4 | 76,2 | 190,5 | 8 | 19,0 | 7,500 |
| 5" | 254,0 | 23,8 | 185,7 | 163,5 | 141,2 | 128,3 | 88,9 | 215,9 | 8 | 22,2 | 9,200 |
| 6" | 279,4 | 25,4 | 215,9 | 192,1 | 168,4 | 154,2 | 88,9 | 241,3 | 8 | 22,2 | 11,000 |
| 8" | 342,9 | 28,6 | 269,9 | 246,1 | 219,1 | 202,7 | 101,6 | 298,4 | 8 | 22,2 | 18,300 |
| 10" | 406,4 | 30,2 | 323,8 | 304,8 | 273,0 | 254,5 | 101,6 | 361,9 | 12 | 25,4 | 25,000 |
| 12" | 482,6 | 31,7 | 381,0 | 365,1 | 323,8 | 304,8 | 114,3 | 431,8 | 12 | 25,4 | 39,000 |
| 14" | 533,4 | 34,9 | 412,7 | 400,00 | 355,6 | 336,5 | 127,0 | 476,2 | 12 | 28,6 | 51,000 |
| 16" | 596,9 | 36,5 | 469,9 | 457,2 | 406,4 | 387,3 | 127,0 | 539,7 | 16 | 28,6 | 60,000 |
| 18" | 635,0 | 3,7 | 533,4 | 504,8 | 457,2 | 438,1 | 139,7 | 577,8 | 16 | 31,7 | 71,000 |
| 20" | 698,5 | 42,9 | 584,2 | 558,8 | 508,0 | 488,9 | 144,5 | 635,0 | 20 | 31,7 | 88,000 |
| 22" | 749,3 | 46,0 | 461,2 | 609,6 | 558,8 | 539,7 | 149,2 | 692,1 | 20 | 34,9 | 102,000 |
| 24" | 812,8 | 47,6 | 692,1 | 663,6 | 609,6 | 590,5 | 152,4 | 749,3 | 20 | 34,9 | 119,000 |

# Conexión hierro forjado 3000 lbs roscada

## CONEXIONES 3000 LBS ROSCADAS

| TIPO DE PRODUCTO | PESO APROXIMADO KG/PZA | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" |
| CODO 90° | 0.1 | 0.14 | 0.29 | 0.43 | 0.69 | 1.14 | 1.42 | 2.63 | 2.92 | 5.99 | 8.88 | 14.85 |
| CODO 45° | 0.13 | 0.12 | 0.24 | 0.34 | 0.56 | 0.94 | 1.03 | 2.05 | 2.23 | 3.71 | 5.97 | 8.96 |
| TEE | 0.13 | 0.2 | 0.38 | 0.56 | 0.92 | 1.49 | 1.76 | 3.27 | 3.53 | 6.99 | 10.19 | 19.13 |
| COPLE | 0.05 | 0.04 | 0.06 | 0.13 | 0.19 | 0.45 | 0.81 | 1.07 | 1.4 | 2.29 | 3.38 | 6.28 |
| COPLE REDUCIDO | 0.05 | 0.05 | 0.06 | 0.13 | 0.19 | 0.39 | 0.68 | 0.99 | 1.37 | 2.07 | 3.08 | 5.44 |
| TAPON CAPA | 0.02 | 0.04 | 0.05 | 0.11 | 0.18 | 0.37 | 0.62 | 0.72 | 1.09 | 2.22 | 3.5 | 4.84 |
| TUERCA UNION | 0.28 | 0.28 | 0.24 | 0.34 | 0.48 | 0.77 | 1.03 | 1.63 | 2.43 | 3.63 | 5.27 | 12 |

## CONEXIONES 6000 LBS ROSCADAS

| TIPO DE PRODUCTO | PESO APROXIMADO KG/PZA | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" |
| CODO 90° | 0.17 | 0.33 | 0.45 | 0.8 | 1.31 | 1.61 | 2.93 | 3.79 | 7.31 | 9.88 | 16.43 | |
| CODO 45° | 0.11 | 0.27 | 0.39 | 0.63 | 1.07 | 1.27 | 2.24 | 2.54 | 4.37 | 7.01 | 14.16 | |
| TEE | 0.2 | 0.45 | 0.63 | 0.98 | 1.65 | 2.17 | 3.74 | 4.71 | 7.88 | 13.11 | 22.5 | |
| COPLE | 0.08 | 0.13 | 0.2 | 0.34 | 0.5 | 0.87 | 1.09 | 1.94 | 2.87 | 4.2 | 6.1 | 10.04 |
| COPLE REDUCIDO | 0.08 | 0.06 | 0.18 | 0.31 | 0.41 | 0.85 | 1.05 | 1.81 | 3.4 | 4.2 | 6.1 | 10.04 |
| TAPÓN CAPA | 0.06 | 0.06 | 0.09 | 0.26 | 0.4 | 0.71 | 0.59 | 0.77 | 2.23 | | | |

## TAPONES Y BUSHING 2000 / 3000 / 6000 LBS

| TIPO DE PRODUCTO | PESO APROXIMADO KG/PZA | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" |
| CAB. CUAD. | 0.01 | 0.01 | 0.03 | 0.05 | 0.09 | 0.16 | 0.27 | 0.38 | 0.63 | 0.96 | 1.53 | 3.83 |
| CAB. HEX. | 0.01 | 0.03 | 0.05 | 0.07 | 0.14 | 0.22 | 0.44 | 0.59 | 1.03 | 1.8 | 2.6 | 5.2 |
| CAB. RED. | 0.02 | 0.45 | 0.07 | 0.12 | 0.2 | 0.34 | 0.55 | 0.79 | 1.47 | 2.34 | 3.26 | 6.24 |
| BUSHING | | 0.01 | 0.01 | 0.03 | 0.05 | 0.09 | 0.25 | 0.34 | 0.45 | 0.6 | 1.16 | 3.2 |

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# conexion negra 3000 lbs socketweld

## CONEXIONES 3000 LBS SOCKETWELD

| TIPO DE PRODUCTO | PESO APROXIMADO KG/PZA | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" |
| CODO 90° | 0.09 | 0.08 | 0.12 | 0.22 | 0.33 | 0.53 | 0.84 | 1.08 | 1.68 | 3.2 | 5.38 | 10.95 |
| CODO 45° | 0.16 | 0.14 | 0.12 | 0.2 | 0.28 | 0.42 | 0.69 | 0.8 | 1.35 | 2.53 | 5.1 | 9.41 |
| TEE | 0.13 | 0.09 | 0.15 | 0.29 | 0.42 | 0.65 | 1.04 | 1.35 | 2.04 | 3.98 | 5.9 | 17.91 |
| COPLE | 0.04 | 0.05 | 0.07 | 0.13 | 0.17 | 0.29 | 0.45 | 0.59 | 0.86 | 1.4 | 1.78 | 2.85 |
| COPLE REDUCIDO | 0.04 | 0.05 | 0.07 | 0.13 | 0.19 | 0.27 | 0.49 | 0.59 | 0.97 | 1.42 | 1.88 | 3.31 |
| TAPON CAPA | 0.03 | 0.04 | 0.07 | 0.1 | 0.16 | 0.25 | 0.45 | 0.59 | 0.96 | 1.43 | 2.74 | 4.24 |
| TUERCA UNION | 0.28 | 0.28 | 0.25 | 0.35 | 0.49 | 0.81 | 1.1 | 1.61 | 2.16 | 3.5 | 5.15 | 11.59 |

## CONEXIONES 6000 LBS SOCKETWELD

| TIPO DE PRODUCTO | PESO APROXIMADO KG/PZA | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" |
| CODO 90° | | | 0.29 | 0.4 | 0.73 | 1.17 | 1.48 | 2.79 | 3.28 | | | |
| CODO 45° | | | | 0.36 | 0.57 | 0.92 | 1.11 | 2.01 | 2.09 | | | |
| TEE | 0.14 | 0.2 | 0.43 | 0.56 | 0.94 | 1.49 | 1.93 | 3.37 | 3.95 | | | |
| COPLE | 0.05 | | 0.14 | 0.24 | 0.27 | 0.44 | 0.6 | 1.11 | 1.62 | | | |
| COPLE REDUCIDO | | | | 0.24 | 0.33 | 0.65 | 0.75 | 1.2 | 2.12 | | | |
| TAPON CAPA | | | | 0.16 | 0.23 | 0.36 | 0.64 | 0.94 | 1.41 | | | |



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# Conexión acero al carbón soldable

## TAPÓN CAPA

| DIÁMETRO NOMINAL | PESO APROXIMADO KG/PZA | | | | | |
|---|---|---|---|---|---|---|
| in | CÉDULA STD | CÉDULA 40 | CÉDULA XS | CÉDULA 80 | CÉDULA XxS | CÉDULA 160 |
| ½ | 0.04 | 0.04 | 0.05 | 0.05 | 0.10 | 0.06 |
| ¾ | 0.05 | 0.05 | 0.07 | 0.07 | 0.13 | 0.09 |
| 1 | 0.11 | 0.11 | 0.15 | 0.15 | 0.29 | 0.20 |
| 1 ¼ | 0.14 | 0.14 | 0.20 | 0.20 | 0.39 | 0.25 |
| 1 ½ | 0.17 | 0.17 | 0.24 | 0.24 | 0.50 | 0.35 |
| 2 | 0.24 | 0.24 | 0.33 | 0.33 | 0.68 | 0.54 |
| 2 ½ | 0.42 | 0.42 | 0.57 | 0.57 | 1.33 | 0.77 |
| 3 | 0.67 | 0.67 | 0.92 | 0.92 | 2.18 | 1.40 |
| 4 | 1.17 | 1.17 | 1.68 | 1.68 | 3.80 | 2.76 |
| 5 | 1.90 | 1.90 | 2.73 | 2.73 | 6.22 | 4.85 |
| 6 | 2.83 | 2.83 | 4.38 | 4.38 | 9.85 | 7.81 |
| 8 | 5.11 | 5.11 | 7.91 | 7.91 | 16.40 | 15.20 |
| 10 | 8.92 | 8.92 | 12.20 | 16.40 | 28.35 | 28.90 |
| 12 | 13.10 | 13.10 | 17.40 | 26.40 | 39.40 | 47.70 |
| 14 | 15.90 | 18.60 | 21.20 | 34.90 | | 61.20 |
| 16 | 20.0 | 26.70 | 26.70 | 49.0 | | |
| 18 | 25.5 | 41.5 | 34.1 | 69.0 | | 131.0 |
| 20 | 31.8 | 54.1 | 42.5 | 93.7 | | 179.0 |
| 22 | 38.8 | 61.4 | 51.7 | 116.0 | | 219.0 |
| 24 | 45.1 | 90.1 | 60.1 | 160.0 | | 307.0 |
| 26 | 50.5 | 92.3 | 67.3 | | | |
| 28 | 56.2 | 103.0 | 74.9 | | | |
| 30 | 62.1 | 114.0 | 82.8 | | | |
| 32 | 68.4 | 126.0 | 91.2 | | | |
| 34 | 75.4 | 138.0 | 100.0 | | | |
| 36 | 81.9 | 164.0 | 109.0 | | | |
| 38 | 94.7 | | 126.0 | | | |
| 40 | 102.0 | | 137.0 | | | |
| 42 | 110.0 | | 147.0 | | | |
| 44 | 126.0 | | 167.0 | | | |
| 46 | 134.0 | | 179.0 | | | |
| 48 | 143.0 | | 191.0 | | | |

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| PROPIEDADES MECÁNICAS | | | | | | |
|---|---|---|---|---|---|---|
| MATERIAL | TENSIÓN Ksi (Mpa) | CEDENCIA Ksi (Mpa) | ELONGACIÓN RECT. 5PE | NOTCH TGH AVG/MIN FT-LB (J) | PRUEBA DE IMPACTO °F (°C) | TRATAMIENTO TÉCNICO |
| ASTM A-234 WPB | 60-85 (415-585) | 35 (240) | 30 | N/A | N/A | N/A** |
| ASTM A-234 WPC | 70-95 (485-655) | 40 (275) | 30 | N/A | N/A | N/A** |
| ASTM A-420 WPL6 | 60-85 (415-585) | 35 (240) | 30 | 13/10 (17.6/13.6) | -50 (-46) | Se requiere |
| ASTM A-860 WPHY-52 | 66 (455) | 52 (360) | 32 | 30/25 (40/34) | -50 (-46) | Se requiere |
| MSS WPHY-52 | 66 | 52 | 25 | 20 | +20 °F | Se requiere |
| MSS WPHY-60 | 75 | 60 | 20 | 20 | +20 °F | Se requiere |
| MSS WPHY-65 | 77 | 65 | 20 | 20 | +20 °F | Se requiere |
| MSS WPHY-70 | 82 | 70 | 18 | 20 | +20 °F | Se requiere |

| COMPOSICIÓN QUÍMICA %MÁXIMO | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MATERIAL | C | Mn | P | S | Si | Cr | Mo | Ni | Cu | V | Cb | Ti | Al | CEDENCIA MÁXIMA |
| ASTM A-234 WPB | 0.300 | 0.29-1.06 | 0.050 | 0.058 | 0.010 MIN | 0.400 | 0.150 | 0.400 | 0.400 | 0.080 | 0.020 | | | |
| ASTM A-234 WPC | 0.350 | 0.29-1.06 | 0.050 | 0.058 | 0.010 MIN | 0.400 | 0.150 | 0.400 | 0.400 | 0.080 | 0.020 | | | |
| ASTM A-420 WPL6 | 0.300 | 0.60-1.35 | 0.035 | 0.040 | 0.19-0.30 | 0.300 | 0.120 | 0.400 | 0.400 | 0.050 | 0.020 | | | |
| ASTM A-860 WPHY-52 | 0.200 | 1.01-1.45 | 0.030 | 0.010 | 0.15-0.40 | 0.300 | 0.250 | 0.500 | 0.350 | 0.100 | 0.040 | 0.050 | 0.060 | 0.42 |
| MSS WPHY-52/60/65/70 | 0.300 | 1.800 | 0.050 | 0.060 | 0.500 | 0.250 | 0.250 | 1.000 | 1.500 | 0.130 | 0.100 | | | 0.45 |



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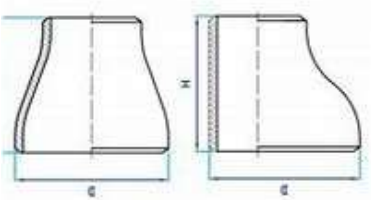


## REDUCTOR CONCÉNTRICO Y REDUCTOR EXCÉNTRICO

| DIÁMETRO NOMINAL in | PESO APROXIMADO KG/PZA | | | | | |
|---|---|---|---|---|---|---|
| | CÉDULA STD | CÉDULA 40 | CÉDULA XS | CÉDULA 80 | CÉDULA XXS | CÉDULA 160 |
| ¾ x ½ | 0.06 | 0.06 | 0.08 | 0.08 | | |
| 1 x ¾ | 0.12 | 0.12 | 0.15 | 0.15 | 0.25 | 0.19 |
| 1 x ½ | 0.11 | 0.11 | 0.14 | 0.14 | 0.22 | 0.17 |
| 1½ x 1 | 0.16 | 0.16 | 0.21 | 0.21 | 0.35 | 0.25 |
| 1¼ x ¾ | 0.15 | 0.15 | 0.19 | 0.19 | 0.31 | 0.23 |
| 1¼ x ½ | 0.14 | 0.14 | 0.18 | 0.18 | | |
| 1½ x 1¼ | 0.25 | 0.25 | 0.33 | 0.33 | 0.57 | 0.43 |
| 1½ x 1 | 0.22 | 0.22 | 0.30 | 0.30 | 0.50 | 0.38 |
| 1½ x ¾ | 0.21 | 0.21 | 0.27 | 0.27 | 0.45 | 0.35 |
| 1½ x ½ | 0.18 | 0.18 | 0.24 | 0.24 | 0.40 | 0.30 |
| 2 x 1½ | 0.38 | 0.38 | 0.51 | 0.51 | 0.91 | 0.75 |
| 2 x 1¼ | 0.36 | 0.36 | 0.48 | 0.48 | 0.85 | 0.70 |
| 2 x 1 | 0.33 | 0.33 | 0.44 | 0.44 | 0.77 | 0.64 |
| 2 x ¾ | 0.30 | 0.30 | 0.40 | 0.40 | 0.69 | 0.58 |
| 2½ x 2 | 0.73 | 0.73 | 0.95 | 0.95 | 1.68 | 1.20 |
| 2½ x 1½ | 0.67 | 0.67 | 0.87 | 0.87 | 1.51 | 1.08 |
| 2½ x 1¼ | 0.64 | 0.64 | 0.83 | 0.83 | 1.42 | 1.02 |
| 2½ x 1 | 0.56 | 0.56 | 0.73 | 0.73 | 1.23 | 0.93 |
| 3 x 2½ | 0.94 | 0.94 | 1.25 | 1.25 | 2.25 | 1.71 |
| 3 x 2 | 0.85 | 0.85 | 1.13 | 1.13 | 2.01 | 1.57 |
| 3 x 1½ | 0.79 | 0.79 | 1.04 | 1.04 | 1.83 | 1.44 |
| 3 x 1¼ | 0.75 | 0.75 | 1.00 | 1.00 | 1.74 | 1.37 |
| 4 x 3 | 1.45 | 1.45 | 2.02 | 2.02 | 3.65 | 3.00 |
| 4 x 2½ | 1.37 | 1.37 | 1.90 | 1.90 | 3.41 | 2.76 |
| 4 x 2 | 1.27 | 1.27 | 1.76 | 1.76 | 3.11 | 2.58 |
| 4 x 1½ | 1.19 | 1.19 | 1.64 | 1.64 | 2.89 | 2.41 |
| 5 x 4 | 2.50 | 2.50 | 3.52 | 3.52 | 6.47 | 5.59 |
| 5 x 3 | 2.27 | 2.27 | 3.18 | 3.18 | 5.78 | 5.30 |
| 5 x 2½ | 2.16 | 2.16 | 3.02 | 3.02 | 5.46 | 4.70 |
| 5 x 2 | 2.03 | 2.03 | 2.85 | 2.85 | 5.12 | 4.43 |
| 6 x 5 | 3.57 | 3.57 | 5.38 | 5.38 | 9.89 | 8.63 |
| 6 x 4 | 3.30 | 3.30 | 4.96 | 4.96 | 8.98 | 7.88 |
| 6 x 3 | 3.04 | 3.04 | 4.56 | 4.56 | 8.21 | 7.21 |
| 6 x 2½ | 2.94 | 2.94 | 4.38 | 4.38 | 7.88 | 6.80 |
| 8 x 6 | 5.71 | 5.71 | 8.36 | 8.36 | 14.30 | 15.00 |
| 8 x 5 | 5.40 | 5.40 | 8.14 | 8.14 | 13.40 | 14.00 |
| 8 x 4 | 5.10 | 5.10 | 7.66 | 7.66 | 12.60 | 13.10 |
| 10 x 8 | 9.58 | 9.58 | 12.90 | | | |
| 10 x 6 | 8.78 | 8.78 | 11.80 | | | |
| 10 x 5 | 8.42 | 8.42 | 11.30 | | | |
| 10 x 4 | 8.20 | 8.20 | 11.00 | | | |
| 12 x 10 | 13.60 | 14.70 | 18.00 | | | |
| 12 x 8 | 12.70 | 13.70 | 16.70 | | | |



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## REDUCTOR CONCÉNTRICO Y REDUCTOR EXCÉNTRICO

| DIÁMETRO NOMINAL | PESO APROXIMADO KG/PZA | | | | | |
|---|---|---|---|---|---|---|
| in | CÉDULA STD | CÉDULA 40 | CÉDULA XS | CÉDULA 80 | CÉDULA XxS | CÉDULA 160 |
| 12 x 6 | 11.80 | 12.80 | 15.60 | 21.40 | 32.00 | 38.00 |
| 12 x 5 | 11.70 | 12.60 | 15.30 | 20.60 | 31.00 | 36.40 |
| 14 x 12 | 25.40 | 29.50 | 33.60 | 49.80 | | 88.50 |
| 14 x 10 | 23.60 | 27.40 | 31.20 | 46.10 | | 81.80 |
| 14 x 8 | 21.80 | 25.40 | 28.90 | 42.20 | | 74.70 |
| 14 x 6 | 20.30 | 23.60 | 26.80 | 39.10 | | 68.30 |
| 16 x 14 | 31.00 | 41.10 | 41.10 | 67.70 | | 121.00 |
| 16 x 12 | 29.60 | 39.20 | 39.20 | 65.00 | | 116.00 |
| 16 x 10 | 27.80 | 36.80 | 36.80 | 60.80 | | 108.00 |
| 16 x 8 | 26.20 | 34.50 | 34.50 | 56.60 | | 99.90 |
| 18 x 16 | 37.80 | 56.20 | 50.10 | 91.40 | | 165.00 |
| 18 x 14 | 35.70 | 53.00 | 47.40 | 86.40 | | 155.00 |
| 18 x 12 | 33.20 | 51.70 | 44.00 | 83.00 | | 149.00 |
| 18 x 10 | 32.70 | 48.40 | 43.20 | 78.50 | | 140.00 |
| 20 x 18 | 56.40 | 88.40 | 74.90 | 150.00 | | |
| 20 x 16 | 53.50 | 83.90 | 71.10 | 142.00 | | |
| 20 x 14 | 50.80 | 79.60 | 67.40 | 136.00 | | 233.00 |
| 20 x 12 | 49.20 | 76.90 | 65.10 | 130.00 | | |
| 22 x 20 | 62.40 | 98.00 | 82.90 | 181.00 | | |
| 22 x 18 | 59.40 | 93.20 | 78.90 | 172.00 | | |
| 22 x 16 | 56.40 | 88.40 | 74.80 | 164.00 | | |
| 22 x 14 | 54.30 | 83.60 | 72.10 | 156.00 | | |
| 24 x 22 | 68.40 | 124.00 | 91.00 | 215.00 | | |
| 24 x 20 | 65.70 | 119.00 | 87.30 | 206.00 | | |
| 24 x 18 | 63.00 | 114.00 | 83.80 | 197.00 | | |
| 24 x 16 | 60.50 | 109.00 | 80.30 | 185.00 | | |
| 26 x 24 | 89.40 | 162.00 | 119.00 | | | |
| 26 x 22 | 85.80 | 155.00 | 114.00 | | | |
| 26 x 20 | 82.10 | 148.00 | 109.00 | | | |
| 26 x 18 | 79.50 | 142.00 | 106.00 | | | |
| 28 x 26 | 96.60 | 175.00 | 129.00 | | | |
| 28 x 24 | 93.00 | 168.00 | 124.00 | | | |
| 28 x 22 | 89.40 | 162.00 | 119.00 | | | |
| 28 x 20 | 88.80 | 155.00 | 115.00 | | | |
| 30 x 28 | 104.00 | 188.00 | 138.00 | | | |
| 30 x 26 | 100.00 | 182.00 | 133.00 | | | |
| 30 x 24 | 96.60 | 175.00 | 129.00 | | | |
| 30 x 22 | 94.20 | 168.00 | 125.00 | | | |
| 32 x 30 | 111.00 | 202.00 | 148.00 | | | |
| 32 x 28 | 108.00 | 195.00 | 143.00 | | | |
| 32 x 26 | 104.00 | 188.00 | 138.00 | | | |
| 32 x 24 | 102.00 | 184.00 | 135.00 | | | |
| 34 x 32 | 118.00 | 215.00 | 158.00 | | | |
| 34 x 30 | 115.00 | 208.00 | 153.00 | | | |
| 34 x 28 | 111.00 | 205.00 | 148.00 | | | |
| 34 x 26 | 109.00 | 200.00 | 145.00 | | | |
| 36 x 34 | 125.60 | 250.00 | 167.30 | | | |
| 36 x 32 | 122.00 | 243.00 | 162.40 | | | |
| 36 x 30 | 118.40 | 238.00 | 157.60 | | | |
| 36 x 28 | 114.70 | 234.00 | 152.80 | | | |



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| COMPOSICIÓN QUÍMICA %MÁXIMO | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MATERIAL | C | Mn | P | S | Si | Cr | Mo | Ni | Cu | V | Cb | Ti | Al | CEDENCIA MÁXIMA |
| ASTM A-234 WPB | 0.300 | 0.29-1.06 | 0.050 | 0.058 | 0.010 MIN | 0.400 | 0.150 | 0.400 | 0.400 | 0.080 | 0.020 | | | |
| ASTM A-234 WPC | 0.350 | 0.29-1.06 | 0.050 | 0.058 | 0.010 MIN | 0.400 | 0.150 | 0.400 | 0.400 | 0.080 | 0.020 | | | |
| ASTM A-420 WPL6 | 0.300 | 0.60-1.35 | 0.035 | 0.040 | 0.19-0.30 | 0.300 | 0.120 | 0.400 | 0.400 | 0.050 | 0.020 | | | |
| ASTM A-860 WPHY-52 | 0.200 | 1.01-1.45 | 0.030 | 0.030 | 0.15-0.40 | 0.300 | 0.250 | 0.500 | 0.350 | 0.100 | 0.040 | 0.050 | 0.060 | 0.42 |
| MSS WPHY-52/60/65/70 | 0.300 | 1.600 | 0.050 | 0.060 | 0.500 | 0.250 | 0.250 | 1.000 | 1.500 | 0.230 | 0.100 | | | 0.45 |

## REDUCTOR CONCÉNTRICO Y REDUCTOR EXCÉNTRICO

| DIÁMETRO NOMINAL | PESO APROXIMADO KG/PZA | | | | | |
|---|---|---|---|---|---|---|
| In | CÉDULA STD | CÉDULA 40 | CÉDULA XS | CÉDULA 80 | CÉDULA XXS | CÉDULA 160 |
| 40 x 38 | 140.00 | | 187.00 | | | |
| 40 x 36 | 137.00 | | 182.00 | | | |
| 40 x 34 | 133.00 | | 177.00 | | | |
| 40 x 32 | 131.00 | | 174.00 | | | |
| 42 x 40 | 147.00 | | 196.00 | | | |
| 42 x 38 | 144.00 | | 192.00 | | | |
| 42 x 36 | 140.00 | | 187.00 | | | |
| 42 x 34 | 138.00 | | 184.00 | | | |
| 44 x 42 | 155.00 | | 206.00 | | | |
| 44 x 40 | 151.00 | | 201.00 | | | |
| 44 x 38 | 147.00 | | 196.00 | | | |
| 44 x 36 | 146.00 | | 194.00 | | | |
| 46 x 44 | 189.00 | | 252.00 | | | |
| 46 x 42 | 185.00 | | 246.00 | | | |
| 46 x 40 | 180.00 | | 241.00 | | | |
| 46 x 38 | 178.00 | | 237.00 | | | |
| 48 x 46 | 197.00 | | 263.00 | | | |
| 48 x 44 | 193.00 | | 257.00 | | | |
| 48 x 42 | 189.00 | | 252.00 | | | |
| 48 x 40 | 186.000 | | 248.00 | | | |

| PROPIEDADES MECÁNICAS | | | | | | |
|---|---|---|---|---|---|---|
| MATERIAL | TENSIÓN Ksi (Mpa) | CEDENCIA Ksi (Mpa) | ELONGACIÓN RECT. 5PE | NOTCH TGH AVG/MIN FT-LB (J) | PRUEBA DE IMPACTO °F (°C) | TRATAMIENTO TÉCNICO |
| ASTM A-234 WPB | 60-85 (415-585) | 35 (240) | 30 | N/A | N/A | N/A** |
| ASTM A-234 WPC | 70-95 (485-655) | 40 (275) | 30 | N/A | N/A | N/A** |
| ASTM A-420 WPL6 | 60-85 (415-585) | 35 (240) | 30 | 13/10 (17.6/13.6) | -50 (-46) | Se requiere |
| ASTM A-860 WPHY-52 | 66 (455) | 52 (360) | 32 | 30/25 (40/34) | -50 (-46) | Se requiere |
| MSS WPHY-52 | 66 | 52 | 25 | 20 | +20 °F | Se requiere |
| MSS WPHY-60 | 75 | 60 | 20 | 20 | +20 °F | Se requiere |
| MSS WPHY-65 | 77 | 65 | 20 | 20 | +20 °F | Se requiere |
| MSS WPHY-70 | 82 | 70 | 18 | 20 | +20 °F | Se requiere |

## TEE RECTA Y TEE REDUCIDA

| DIÁMETRO NOMINAL | PESO APROXIMADO KG/PZA | | | | | |
|---|---|---|---|---|---|---|
| in | CÉDULA STD | CÉDULA 40 | CÉDULA xS | CÉDULA 80 | CÉDULA xxS | CÉDULA 160 |
| ½ x ½ | 0.13 | 0.13 | 0.15 | 0.15 | 0.23 | 0.17 |
| ¾ x ¾ | 0.18 | 0.18 | 0.23 | 0.23 | 0.35 | 0.29 |
| ¾ x ½ | 0.17 | 0.17 | 0.22 | 0.22 | 0.33 | 0.26 |
| 1 x 1 | 0.34 | 0.34 | 0.44 | 0.44 | 0.72 | 0.59 |
| 1 x ¾ | 0.33 | 0.33 | 0.40 | 0.40 | 0.67 | 0.51 |
| 1 x ½ | 0.32 | 0.32 | 0.39 | 0.39 | 0.64 | 0.50 |
| 1¼ x 1¼ | 0.59 | 0.59 | 0.77 | 0.77 | 1.29 | 0.94 |
| 1¼ x 1 | 0.55 | 0.55 | 0.72 | 0.72 | 1.21 | 0.89 |
| 1¼ x ¾ | 0.51 | 0.51 | 0.65 | 0.65 | 1.14 | 0.85 |
| 1¼ x ½ | 0.49 | 0.49 | 0.64 | 0.64 | 1.10 | 0.80 |
| 1½ x 1½ | 0.83 | 0.83 | 1.10 | 1.10 | 1.91 | 1.46 |
| 1½ x 1¼ | 0.80 | 0.80 | 1.06 | 1.06 | 1.84 | 1.38 |
| 1½ x 1 | 0.77 | 0.77 | 1.00 | 1.00 | 1.74 | 1.32 |
| 1½ x ¾ | 0.73 | 0.73 | 0.95 | 0.95 | 1.65 | 1.25 |
| 1½ x ½ | 0.69 | 0.69 | 0.91 | 0.91 | 1.59 | 1.23 |
| 2 x 2 | 1.20 | 1.20 | 1.64 | 1.64 | 2.94 | 2.43 |
| 2 x 1½ | 1.12 | 1.12 | 1.51 | 1.51 | 2.73 | 2.22 |
| 2 x 1¼ | 1.08 | 1.08 | 1.46 | 1.46 | 2.60 | 2.13 |
| 2 x 1 | 1.03 | 1.03 | 1.38 | 1.38 | 2.47 | 2.04 |
| 2 x ¾ | 0.97 | 0.97 | 1.34 | 1.34 | 2.40 | 1.98 |
| 2½ x 2½ | 2.38 | 2.38 | 3.10 | 3.10 | 5.34 | 3.90 |
| 2½ x 2 | 2.13 | 2.13 | 2.81 | 2.81 | 4.85 | 3.60 |
| 2½ x 1½ | 2.06 | 2.06 | 2.69 | 2.69 | 4.63 | 3.38 |
| 2½ x 1¼ | 2.02 | 2.02 | 2.64 | 2.64 | 4.53 | 3.30 |
| 2½ x 1 | 1.86 | 1.86 | 2.45 | 2.45 | 4.39 | 3.22 |
| 3 x 3 | 3.29 | 3.29 | 4.43 | 4.43 | 8.04 | 6.20 |
| 3 x 2½ | 3.12 | 3.12 | 4.18 | 4.18 | 7.54 | 5.77 |
| 3 x 2 | 2.89 | 2.89 | 3.89 | 3.89 | 7.06 | 5.48 |
| 3 x 1½ | 2.81 | 2.81 | 3.78 | 3.78 | 6.68 | 5.27 |
| 3 x 1¼ | 2.76 | 2.76 | 3.73 | 3.73 | 6.75 | 5.18 |
| 4 x 4 | 5.62 | 5.62 | 7.86 | 7.86 | 14.45 | 11.59 |
| 4 x 3 | 5.22 | 5.22 | 7.26 | 7.26 | 13.30 | 10.78 |
| 4 x 2½ | 5.06 | 5.06 | 7.02 | 7.02 | 12.80 | 10.50 |
| 4 x 2 | 4.81 | 4.81 | 6.73 | 6.73 | 12.29 | 10.00 |
| 4 x 1½ | 4.75 | 4.75 | 6.58 | 6.58 | 12.08 | 9.85 |
| 5 x 5 | 8.92 | 8.92 | 12.54 | 12.54 | 23.58 | 20.17 |
| 5 x 4 | 8.36 | 8.36 | 11.76 | 11.76 | 21.94 | 18.67 |
| 5 x 3 | 7.95 | 7.95 | 11.16 | 11.16 | 20.85 | 17.72 |
| 5 x 2½ | 7.79 | 7.79 | 10.92 | 10.92 | 20.45 | 17.45 |
| 5 x 2 | 7.61 | 7.61 | 10.79 | 10.79 | 20.03 | 17.04 |
| 6 x 6 | 13.06 | 13.06 | 19.76 | 19.76 | 37.07 | 31.76 |
| 6 x 5 | 12.38 | 12.38 | 18.53 | 18.53 | 34.89 | 29.85 |



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## TEE RECTA Y TEE REDUCIDA

| DIÁMETRO NOMINAL | PESO APROXIMADO KG/PZA | | | | | |
|---|---|---|---|---|---|---|
| in | CÉDULA STD | CÉDULA 40 | CÉDULA XS | CÉDULA 80 | CÉDULA XxS | CÉDULA 160 |
| 6 x 4 | 11.82 | 11.82 | 17.72 | 17.72 | 33.39 | 28.35 |
| 6 x 3 | 11.43 | 11.43 | 17.17 | 17.17 | 32.30 | 27.40 |
| 6 x 2½ | 11.40 | 11.40 | 17.04 | 17.04 | 31.76 | 26.98 |
| 8 x 8 | 24.40 | 24.40 | 36.93 | 36.93 | 62.29 | 64.33 |
| 8 x 6 | 22.63 | 22.63 | 34.35 | 34.35 | 58.60 | 59.29 |
| 8 x 5 | 21.95 | 21.95 | 33.12 | 33.12 | 56.43 | 57.38 |
| 8 x 4 | 21.40 | 21.40 | 32.30 | 32.30 | 55.08 | 54.93 |
| 10 x 10 | 41.44 | 41.44 | 55.88 | 66.79 | 107.95 | 119.94 |
| 10 x 8 | 38.85 | 22.36 | 53.02 | 62.42 | 74.15 | 110.95 |
| 10 x 6 | 37.07 | 21.95 | 50.43 | 58.83 | 97.45 | 106.99 |
| 10 x 5 | 36.53 | 21.40 | 49.34 | 58.75 | 95.41 | 104.95 |
| 10 x 4 | 36.53 | 41.44 | 49.34 | 57.93 | 93.91 | 103.99 |
| 12 x 12 | 59.43 | 66.38 | 76.75 | 107.95 | 154.01 | 194.90 |
| 12 x 10 | 56.70 | 61.75 | 75.24 | 101.95 | 145.84 | 184.00 |
| 12 x 8 | 54.11 | 57.93 | 72.38 | 97.32 | 139.03 | 174.46 |
| 12 x 6 | 52.34 | 57.25 | 69.79 | 94.73 | 136.30 | 170.58 |
| 12 x 5 | 52.75 | 56.84 | 69.79 | 93.64 | 133.98 | 169.01 |
| 14 x 14 | 72.92 | 85.05 | 96.63 | 141.75 | | 253.52 |
| 14 x 12 | 70.74 | 82.06 | 93.77 | 136.30 | | 243.98 |
| 14 x 10 | 68.02 | 78.51 | 90.37 | 130.71 | | 237.16 |
| 14 x 8 | 65.70 | 76.06 | 89.91 | 126.62 | | 228.98 |
| 14 x 6 | 64.20 | 74.28 | 85.32 | 124.03 | | 223.53 |
| 16 x 16 | 90.10 | 119.94 | 118.58 | 197.64 | | 354.38 |
| 16 x 14 | 88.46 | 117.22 | 117.35 | 190.82 | | 347.57 |
| 16 x 12 | 86.00 | 114.50 | 113.95 | 285.97 | | 338.02 |
| 16 x 10 | 83.55 | 111.77 | 110.68 | 179.92 | | 328.48 |
| 16 x 8 | 81.50 | 107.68 | 109.04 | 175.83 | | 320.30 |
| 18 x 18 | 114.36 | 170.38 | 151.30 | 278.06 | | 482.23 |
| 18 x 16 | 110.95 | 164.93 | 147.71 | 268.52 | | 479.28 |
| 18 x 14 | 109.32 | 162.20 | 144.48 | 264.43 | | 468.88 |
| 18 x 12 | 106.73 | 159.47 | 147.76 | 257.61 | | 459.33 |
| 18 x 10 | 104.82 | 155.39 | 139.03 | 253.52 | | 448.43 |
| 20 x 20 | 141.76 | 221.70 | 188.10 | 377.56 | | 684.23 |
| 20 x 18 | 137.67 | 215.36 | 182.65 | 365.29 | | 666.15 |
| 20 x 16 | 134.12 | 209.91 | 178.56 | 357.11 | | 647.43 |
| 20 x 14 | 132.49 | 207.18 | 175.83 | 351.66 | | 639.25 |
| 20 x 12 | 130.58 | 204.45 | 173.11 | 346.21 | | 629.71 |
| 20 x 10 | 128.13 | 200.36 | 170.38 | 340.75 | | 616.08 |
| 22 x 22 | 171.14 | 197.64 | 227.62 | 497.50 | | 895.50 |
| 22 x 20 | 167.65 | 269.88 | 222.17 | 485.23 | | 872.32 |
| 22 x 18 | 163.56 | 263.06 | 216.72 | 472.97 | | 859.52 |
| 22 x 16 | 459.47 | 256.25 | 212.63 | 463.42 | | 331.43 |
| 24 x 24 | 139.00 | 252.00 | 185.00 | | | |
| 24 x 22 | 138.00 | 249.00 | 183.00 | | | |
| 24 x 20 | 136.00 | 247.00 | 181.00 | | | |
| 24 x 18 | 133.00 | 241.00 | 177.00 | | | |
| 26 x 26 | 176.00 | 319.00 | 234.00 | | | |
| 26 x 24 | 172.00 | 312.00 | 229.00 | | | |
| 26 x 22 | 169.00 | 308.00 | 225.00 | | | |
| 26 x 20 | 166.00 | 302.00 | 221.00 | | | |
| 28 x 28 | 198.00 | 359.00 | 264.00 | | | |
| 28 x 26 | 197.00 | 356.00 | 261.00 | | | |
| 28 x 24 | 193.00 | 350.00 | 256.00 | | | |
| 28 x 22 | 190.00 | 347.00 | 252.00 | | | |



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## TEE RECTA Y TEE REDUCIDA

| DIÁMETRO NOMINAL in | PESO APROXIMADO KG/PZA | | | | | |
|---|---|---|---|---|---|---|
| | CÉDULA STD | CÉDULA 40 | CÉDULA XS | CÉDULA 80 | CÉDULA XXS | CÉDULA 160 |
| 30 x 30 | 228.00 | 414.00 | 304.00 | | | |
| 30 x 28 | 226.00 | 406.00 | 301.00 | | | |
| 30 x 26 | 222.00 | 356.00 | 296.00 | | | |
| 30 x 24 | 218.00 | 350.00 | 291.00 | | | |
| 32 x 32 | 259.00 | 474.00 | 347.00 | | | |
| 32 x 30 | 256.00 | 466.00 | 341.00 | | | |
| 32 x 28 | 252.00 | 458.00 | 335.00 | | | |
| 32 x 26 | 250.00 | 455.00 | 333.00 | | | |
| 34 x 34 | 295.00 | 535.00 | 393.00 | | | |
| 34 x 32 | 292.00 | 526.00 | 389.00 | | | |
| 34 x 30 | 290.00 | 518.00 | 380.00 | | | |
| 34 x 28 | 288.00 | 511.00 | 377.00 | | | |
| 36 x 36 | 331.00 | 656.00 | 441.00 | | | |
| 36 x 34 | 329.00 | 645.00 | 434.00 | | | |
| 36 x 32 | 326.00 | 636.00 | 431.00 | | | |
| 36 x 30 | 323.00 | 627.00 | 427.00 | | | |
| 38 x 38 | 370.00 | | 493.00 | | | |
| 38 x 36 | 367.00 | | 489.00 | | | |
| 38 x 34 | 362.00 | | 481.00 | | | |
| 38 x 32 | 357.00 | | 476.00 | | | |
| 40 x 40 | 411.00 | | 547.00 | | | |
| 40 x 38 | 408.00 | | 543.00 | | | |
| 40 x 36 | 402.00 | | 536.00 | | | |
| 40 x 34 | 397.00 | | 529.00 | | | |
| 42 x 42 | 427.00 | | 567.00 | | | |
| 42 x 40 | 420.00 | | 559.00 | | | |
| 42 x 38 | 418.00 | | 557.00 | | | |
| 42 x 36 | 416.00 | | 554.00 | | | |
| 44 x 44 | 475.00 | | 633.00 | | | |
| 44 x 42 | 473.00 | | 630.00 | | | |
| 44 x 40 | 467.00 | | 623.00 | | | |
| 44 x 38 | 462.00 | | 616.00 | | | |
| 46 x 46 | 521.00 | | 695.00 | | | |
| 46 x 44 | 519.00 | | 691.00 | | | |
| 46 x 42 | 513.00 | | 683.00 | | | |
| 46 x 40 | 507.00 | | 759.00 | | | |
| 46 x 48 | 569.00 | | 755.00 | | | |
| 48 x 46 | 566.00 | | 751.00 | | | |
| 48 x 44 | 564.00 | | 739.00 | | | |
| 48 x 42 | 555.00 | | | | | |

| COMPOSICIÓN QUÍMICA %MÁXIMO | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MATERIAL | C | Mn | P | S | Si | Cr | Mo | Ni | Cu | V | Cb | Ti | Al | CEDENCIA MÁXIMA |
| ASTM A-234 WP9 | 0.300 | 0.29-1.06 | 0.050 | 0.058 | 0.080 MIN | 0.400 | 0.150 | 0.400 | 0.400 | 0.080 | 0.020 | | | |
| ASTM A-234 WPC | 0.350 | 0.29-1.06 | 0.050 | 0.058 | 0.080 MIN | 0.400 | 0.150 | 0.400 | 0.400 | 0.080 | 0.020 | | | |
| ASTM A-420 WPL6 | 0.300 | 0.60-1.35 | 0.035 | 0.040 | 0.13-0.30 | 0.300 | 0.120 | 0.400 | 0.400 | 0.050 | 0.020 | | | |
| ASTM A-860 WPHY-52 | 0.200 | 1.01-1.45 | 0.030 | 0.030 | 0.15-0.40 | 0.300 | 0.250 | 0.500 | 0.350 | 0.100 | 0.040 | 0.050 | 0.060 | 0.42 |
| MSS WPHY-52/60/65/70 | 0.300 | 1.800 | 0.050 | 0.060 | 0.500 | 0.250 | 0.250 | 1.000 | 1.500 | 0.130 | 0.100 | | | 0.45 |



Adymar
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| PROPIEDADES MECÁNICAS | | | | | | |
|---|---|---|---|---|---|---|
| MATERIAL | TENSIÓN Ksi (Mpa) | CEDENCIA Ksi (Mpa) | ELONGACIÓN RECT. 5PE | NOTCH TGH AVG/MIN FT-LB (J) | PRUEBA DE IMPACTO °F (°C) | TRATAMIENTO TÉCNICO |
| ASTM A-234 WPB | 60-85 (415-585) | 35 (240) | 30 | N/A | N/A | N/A** |
| ASTM A-234 WPC | 70-95 (485-655) | 40 (275) | 30 | N/A | N/A | N/A** |
| ASTM A-420 WPL6 | 60-85 (415-585) | 35 (240) | 30 | 13/10 (17.6/13.6) | -50 (-46) | Se requiere |
| ASTM A-860 WPHY-52 | 66 (455) | 52 (360) | 32 | 30/25 (40/34) | -50 (-46) | Se requiere |
| MSS WPHY-52 | 66 | 52 | 25 | 20 | +20 °F | Se requiere |
| MSS WPHY-60 | 75 | 60 | 20 | 20 | +20 °F | Se requiere |
| MSS WPHY-65 | 77 | 65 | 20 | 20 | +20 °F | Se requiere |
| MSS WPHY-70 | 82 | 70 | 18 | 20 | +20 °F | Se requiere |

## CODO 90° RADIO LARGO

| DIÁMETRO NOMINAL | PESO APROXIMADO KG/PZA | | | | | |
|---|---|---|---|---|---|---|
| in | CÉDULA STD | CÉDULA 40 | CÉDULA xS | CÉDULA 80 | CÉDULA xxS | CÉDULA 160 |
| ½ | 0.08 | 0.08 | 0.1 | 0.1 | 0.15 | 0.12 |
| ¾ | 0.11 | 0.11 | 0.14 | 0.14 | 0.22 | 0.13 |
| 1 | 0.16 | 0.16 | 0.20 | 0.20 | 0.36 | 0.25 |
| 1 ¼ | 0.26 | 0.26 | 0.35 | 0.35 | 0.64 | 0.42 |
| 1 ½ | 0.37 | 0.37 | 0.50 | 0.50 | 0.93 | 0.65 |
| 2 | 0.66 | 0.66 | 0.90 | 0.90 | 1.69 | 1.33 |
| 2 ½ | 1.29 | 1.29 | 1.79 | 1.79 | 3.43 | 2.33 |
| 3 | 2.04 | 2.04 | 2.74 | 2.74 | 2.25 | 3.83 |
| 4 | 3.84 | 3.84 | 5.36 | 5.36 | 10.20 | 8.02 |
| 5 | 6.48 | 6.48 | 9.13 | 9.13 | 17.60 | 14.70 |
| 6 | 9.94 | 9.94 | 15.00 | 15.00 | 29.10 | 24.20 |
| 8 | 20.10 | 20.10 | 30.50 | 30.50 | 51.40 | 53.20 |
| 10 | 35.4 | 35.4 | 57.0 | 57.0 | 92.8 | 103.0 |
| 12 | 52.0 | 57.0 | 68.7 | 94.0 | 134.0 | 171.0 |
| 14 | 67.9 | 79.1 | 89.9 | 133.0 | | 236.0 |
| 16 | 89.0 | 118.0 | 118.0 | 195.0 | | 350.0 |
| 18 | 113.0 | 169.0 | 150.0 | 275.0 | | 495.0 |
| 20 | 140.0 | 220.0 | 186.0 | 373.0 | | 676.0 |
| 22 | 169.0 | 267.0 | 225.0 | 493.0 | | 886.0 |
| 24 | 202.0 | 366.0 | 268.0 | 636.0 | | 1160.0 |
| 26 | 237.0 | 430.0 | 315.0 | | | |
| 28 | 276.0 | 500.0 | 367.0 | | | |
| 30 | 316.0 | 575.0 | 421.0 | | | |
| 32 | 361.0 | 654.0 | 480.0 | | | |
| 34 | 408.0 | 739.0 | 543.0 | | | |
| 36 | 457.0 | 904.0 | 608.0 | | | |
| 38 | 510.0 | | 679.0 | | | |
| 40 | 565.0 | | 753.0 | | | |
| 42 | 622.0 | | 828.0 | | | |
| 44 | 684.0 | | 912.0 | | | |
| 46 | 748.0 | | 997.0 | | | |
| 48 | 814.0 | | 1085.0 | | | |



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## CODO 90° RADIO CORTO

| DIÁMETRO NOMINAL | PESO APROXIMADO KG/PZA | | | | | |
|---|---|---|---|---|---|---|
| in | CÉDULA STD | CÉDULA 40 | CÉDULA xS | CÉDULA 80 | CÉDULA xxS | CÉDULA 160 |
| ½ | | | | | | |
| ¾ | | | | | | |
| 1 | 0.11 | 0.11 | 0.14 | 0.14 | 0.22 | 0.17 |
| 1 ¼ | 0.18 | 0.18 | 0.23 | 0.23 | 0.39 | 0.28 |
| 1 ½ | 0.25 | 0.25 | 0.33 | 0.33 | 0.57 | 0.43 |
| 2 | 0.44 | 0.44 | 0.60 | 0.60 | 1.13 | 0.89 |
| 2 ½ | 0.91 | 0.91 | 1.19 | 1.19 | 2.19 | 1.46 |
| 3 | 1.36 | 1.36 | 1.83 | 1.83 | 3.49 | 2.53 |
| 4 | 2.56 | 2.56 | 3.58 | 3.58 | 6.79 | 5.35 |
| 5 | 4.32 | 4.32 | 6.09 | 6.09 | 11.80 | 9.79 |
| 6 | 6.63 | 6.63 | 10.00 | 10.00 | 19.50 | 16.20 |
| 8 | 13.40 | 13.40 | 20.30 | 20.30 | 34.30 | 35.50 |
| 10 | 23.6 | 23.6 | 31.8 | 38.0 | 61.0 | 68.6 |
| 12 | 34.6 | 38.0 | 45.8 | 63.0 | 89.5 | 114.0 |
| 14 | 45.3 | 53.0 | 60.0 | 89.0 | | 158.0 |
| 16 | 59.1 | 79.0 | 78.3 | 130.0 | | 234.0 |
| 18 | 75.3 | 113.0 | 99.9 | 183.0 | | 330.0 |
| 20 | 93.1 | 147.0 | 124.0 | 249.0 | | 451.0 |
| 22 | 113.0 | 178.0 | 150.0 | 329.0 | | 591.0 |
| 24 | 135.0 | 244.0 | 179.0 | 424.0 | | 773.0 |
| 26 | 158.0 | 287.0 | 210.0 | | | |
| 28 | 184.0 | 334.0 | 245.0 | | | |
| 30 | 211.0 | 383.0 | 281.0 | | | |
| 32 | 241.0 | 436.0 | 320.0 | | | |
| 34 | 272.0 | 493.0 | 362.0 | | | |
| 36 | 304.0 | 603.0 | 405.0 | | | |
| 38 | 340.0 | | 453.0 | | | |
| 40 | 377.0 | | 502.0 | | | |
| 42 | 416.0 | | 554.0 | | | |
| 44 | 456.0 | | 608.0 | | | |
| 46 | 499.0 | | 665.0 | | | |
| 48 | 543.0 | | 724.0 | | | |

## CODO 45°

| DIÁMETRO NOMINAL | PESO APROXIMADO KG/PZA | | | | | |
|---|---|---|---|---|---|---|
| in | CÉDULA STD | CÉDULA 40 | CÉDULA XS | CÉDULA 80 | CÉDULA XXS | CÉDULA 160 |
| ⅛ | 0.04 | 0.04 | 0.05 | 0.05 | | |
| ¼ | 0.06 | 0.06 | 0.07 | 0.07 | | |
| 1 | 0.08 | 0.08 | 0.10 | 0.10 | 0.18 | 0.13 |
| 1 ¼ | 0.13 | 0.13 | 0.18 | 0.18 | 0.32 | 0.21 |
| 1 ½ | 0.19 | 0.19 | 0.25 | 0.25 | 0.47 | 0.33 |
| 2 | 0.33 | 0.33 | 0.45 | 0.45 | 0.85 | 0.67 |
| 2 ½ | 0.69 | 0.69 | 0.90 | 0.90 | 1.2 | 1.17 |
| 3 | 1.02 | 1.02 | 1.37 | 1.37 | 2.63 | 1.92 |
| 4 | 1.92 | 1.92 | 2.68 | 2.68 | 5.09 | 4.01 |
| 5 | 3.24 | 3.24 | 4.57 | 4.57 | 8.80 | 7.35 |
| 6 | 4.97 | 4.97 | 7.50 | 7.50 | 14.55 | 12.10 |
| 8 | 10.10 | 10.10 | 15.30 | 15.30 | 25.70 | 26.6 |
| 10 | 17.70 | 17.70 | 23.90 | 25.50 | 46.40 | 51.5 |
| 12 | 26.00 | 28.50 | 34.40 | 47.00 | 67.00 | 85.5 |
| 14 | 34.00 | 40.10 | 45.00 | 66.50 | | 118.0 |
| 16 | 44.5 | 59.0 | 59.00 | 97.5 | | 118.0 |
| 18 | 56.5 | 84.5 | 75.5 | 138.0 | | 118.0 |
| 20 | 70.0 | 110.0 | 93.0 | 187.0 | | 118.0 |
| 22 | 84.5 | | 113.0 | 257.0 | | 118.0 |
| 24 | 101.0 | 183.0 | 134.0 | 318.0 | | 118.0 |
| 26 | 119.0 | | 158.0 | | | 118.0 |
| 28 | 138.0 | | 184.0 | | | 118.0 |
| 30 | 158.0 | | 211.0 | | | 118.0 |
| 32 | 180.0 | 327.0 | 240.0 | | | 118.0 |
| 34 | 204.0 | | 272.0 | | | 118.0 |

| COMPOSICIÓN QUÍMICA %MÁXIMO | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MATERIAL | C | Mn | P | S | Si | Cr | Mo | Ni | Cu | V | Cb | Ti | Al | CEDENCIA MÁXIMA |
| ASTM A-234 WPB | 0.300 | 0.29-1.06 | 0.050 | 0.058 | 0.010 MIN | 0.400 | 0.150 | 0.400 | 0.400 | 0.080 | 0.020 | | | |
| ASTM A-234 WPC | 0.350 | 0.29-1.06 | 0.050 | 0.058 | 0.010 MIN | 0.400 | 0.150 | 0.400 | 0.400 | 0.080 | 0.020 | | | |
| ASTM A-420 WPL6 | 0.300 | 0.60-1.35 | 0.035 | 0.040 | 0.19-0.30 | 0.300 | 0.120 | 0.400 | 0.400 | 0.050 | 0.020 | | | |
| ASTM A-860 WPHY-52 | 0.200 | 1.01-1.45 | 0.030 | 0.010 | 0.15-0.40 | 0.300 | 0.250 | 0.500 | 0.350 | 0.100 | 0.040 | 0.050 | 0.060 | 0.42 |
| MSS WPHY-52/60/65/70 | 0.300 | 1.600 | 0.050 | 0.060 | 0.500 | 0.250 | 0.250 | 1.000 | 1.500 | 0.130 | 0.100 | | | 0.45 |



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Industriales, S. de R.L. de C.V.

| PROPIEDADES MECÁNICAS | | | | | | |
|---|---|---|---|---|---|---|
| MATERIAL | TENSIÓN Ksi (Mpa) | CEDENCIA Ksi (Mpa) | ELONGACIÓN MECT. SPE | NOTCH TGH AVG/MIN FT-LB (J) | PRUEBA DE IMPACTO °F (°C) | TRATAMIENTO TÉCNICO |
| ASTM A-234 WPB | 60-85 (415-585) | 35 (240) | 30 | N/A | N/A | N/A** |
| ASTM A-234 WPC | 70-95 (485-655) | 40 (275) | 30 | N/A | N/A | N/A** |
| ASTM A-420 WPL6 | 60-85 (415-585) | 35 (240) | 30 | 13/10 (17.6/13.6) | -50 (-46) | Se requiere |
| ASTM A-860 WPHY-52 | 66 (455) | 52 (360) | 32 | 30/25 (40/34) | -50 (-46) | Se requiere |
| MSS WPHY-52 | 66 | 52 | 25 | 20 | +20 °F | Se requiere |
| MSS WPHY-60 | 75 | 60 | 20 | 20 | +20 °F | Se requiere |
| MSS WPHY-65 | 77 | 65 | 20 | 20 | +20 °F | Se requiere |
| MSS WPHY-70 | 82 | 70 | 18 | 20 | +20 °F | Se requiere |

# Tubería Cédula 10, 40 y 80
# Tipo T 304/L y T316/L



Adymar
Industriales, S. de R.L. de C.V.

## 304 / 304L y 316 / 316L

| DIAMETRO NOMINAL PIPE SIZE pulg. inch. | DIAMETRO EXTERIOR OUTSIDE DIAMETERS pulg. inch. | CEDULAS / SCHEDULES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5 S | 5 | 10 S | 10 | 20 | 30 | 40 S STD | 40 | 60 | 80 S XH | 80 | 120 | 160 | XXS |
| 1/8 | 0.405 | | 0.035 | 0.049 | 0.049 | | | 0.068 | 0.068 | | 0.095 | 0.095 | | | |
| 1/4 | | | 0.2 | 0.27 | 0.27 | | | 0.36 | 0.36 | | 0.46 | 0.46 | | | |
| 3/8 | 0.54 | | 0.049 | 0.065 | 0.065 | | | 0.088 | 0.088 | | 0.119 | 0.119 | | | |
| 1/2 | | | 0.38 | 0.48 | 0.48 | | | 0.62 | 0.062 | | 0.79 | 0.79 | | | |
| 45507 | 0.675 | | 0.049 | 0.065 | 0.065 | | | 0.091 | 0.091 | | 0.126 | 0.126 | | | |
| | | | 0.48 | 0.62 | 0.62 | | | 0.84 | 0.84 | | 1.09 | 1.09 | | | |
| 45323 | 0.84 | 0.065 | 0.065 | 0.083 | 0.083 | | | 0.109 | 0.109 | | 0.147 | 0.147 | | 0.188 | 0.294 |
| | | 0.79 | 0.79 | 0.99 | 0.99 | | | 1.25 | 1.25 | | 1.61 | 1.61 | | 1.93 | 2.53 |
| 45385 | 1.05 | 0.065 | 0.065 | 0.083 | 0.083 | | | 0.113 | 0.113 | | 0.154 | 0.154 | | 0.219 | 0.308 |
| | | 1.01 | 1.01 | 1.26 | 1.26 | | | 1.67 | 1.67 | | 2.18 | 2.18 | | 2.87 | 3.61 |
| 1 | 1.315 | 0.065 | 0.065 | 0.109 | 0.109 | | | 0.133 | 0.133 | | 0.179 | 0.179 | | 0.25 | 0.358 |
| | | 1.28 | 1.28 | 2.07 | 2.07 | | | 2.48 | 2.48 | | 3.21 | 3.21 | | 4.2 | 5.41 |
| 1 1/4 | 1.66 | 0.065 | 0.065 | 0.109 | 0.109 | | | 0.14 | 0.14 | | 0.191 | 0.191 | | 0.25 | 0.382 |
| | | 1.63 | 1.63 | 2.67 | 2.67 | | | 3.36 | 3.36 | | 4.43 | 4.43 | | 5.57 | 717 |
| 1 1/2 | 1.9 | 0.065 | 0.065 | 0.109 | 0.109 | | | 0.145 | 0.145 | | 0.2 | 0.2 | | 0.281 | 0.4 |
| | | 1.88 | 1.88 | 3.08 | 3.08 | | | 4.02 | 4.02 | | 5.37 | 5.37 | | 7.19 | 9.48 |
| 2 | 2.3375 | 0.065 | 0.065 | 0.109 | 0.109 | | | 0.154 | 0.154 | | 0.218 | 0.218 | | 0.344 | 0.436 |
| | | 2.37 | 2.37 | 3.9 | 3.9 | | | 5.4 | 5.4 | | 7.46 | 7.46 | | 11.04 | 13.36 |
| 2 1/2 | 2.875 | 0.083 | 0.083 | 0.12 | 0.12 | | | 0.203 | 0.203 | | 0.276 | 0.276 | | 0.375 | 0.552 |
| | | 3.66 | 3.66 | 5.22 | 5.22 | | | 8.57 | 8.57 | | 11.33 | 11.33 | | 14.81 | 20.26 |
| 3 | 3.5 | 0.083 | 0.083 | 0.12 | 0.12 | | | 0.216 | 0.216 | | 0.3 | 0.3 | | 0.438 | 0.6 |
| | | 4.48 | 4.48 | 6.41 | 6.41 | | | 11.21 | 11.21 | | 15.17 | 15.17 | | 21.9 | 27.49 |
| 3 1/2 | 4 | 0.083 | 0.083 | 0.12 | 0.12 | | | 0.226 | 0.226 | | 0.318 | 0.318 | | | 0.636 |
| | | 5.13 | 5.13 | 7.36 | 7.36 | | | 13.48 | 13.48 | | 18.51 | 18.51 | | | 33.81 |
| 4 | 4.5 | 0.083 | 0.083 | 0.12 | 0.12 | | | 0.2037 | 0.237 | 0.281 | 0.337 | 0.337 | 0.438 | 0.531 | 0.674 |
| | | 5.79 | 5.79 | 8.3 | 8.3 | | | 15.96 | 15.96 | 18.73 | 22.17 | 22.17 | 28.12 | 33.31 | 40.75 |
| 4 1/2 | 5 | | | 0.247 | 0.247 | | | 0.355 | 0.355 | | 0.71 | 0.71 | | | 0.71 |
| | | | | | | | | 18.55 | | | 26.06 | | | | 48.14 |
| 5 | 5.563 | 0.109 | 0.109 | 0.134 | 0.134 | 0.203 | | 0.258 | 0.258 | | 0.375 | 0.375 | 0.5 | 0.625 | 0.75 |
| | | 9.39 | 9.39 | 11.49 | 11.49 | 17.19 | | 21.63 | 21.63 | | 30.75 | 30.75 | 40.01 | 48.78 | 57.05 |
| 6 | 6.625 | 0.109 | 0.109 | 0.134 | 0.134 | 0.203 | | 0.28 | 0.28 | | 0.432 | 0.432 | 0.563 | 0.719 | 0.864 |
| | | 11.22 | 11.22 | 13.74 | 13.74 | 20.6 | | 28.07 | 28.07 | | 42.28 | 42.28 | 53.94 | 67.1 | 78.67 |
| 7 | 7.625 | | | | | | | 0.301 | | | 0.5 | | | | 0.875 |
| | | | | | | | | 34.83 | | | 56.31 | | | | 93.35 |
| 8 | 8.625 | 0.109 | 0.109 | 0.148 | 0.148 | 0.25 | 0.277 | 0.322 | 0.322 | 0.406 | 0.5 | 0.5 | 0.719 | 0.906 | 0.875 |
| | | 14.67 | 14.67 | 19.83 | 19.83 | 33.09 | 36.55 | 42.25 | 42.25 | 52.74 | 64.21 | 64.21 | 89.85 | 110.5 | 107.2 |
| 9 | 9.625 | | | | | | | 0.342 | | | 0.5 | | | | |
| | | | | | | | | 50.18 | | | 72.12 | | | | |
| 10 | 10.75 | 0.134 | 0.134 | 0.165 | 0.165 | 0.25 | 0.307 | 0.365 | 0.365 | 0.5 | 0.5 | 0.594 | 0.844 | 1.125 | 1 |
| | | 22.48 | 22.48 | 27.6 | 27.6 | 41.49 | 50.67 | 59.91 | 59.91 | 81.01 | 81.01 | 95.35 | 132.1 | 23.14 | 154.1 |
| 11 | 11.75 | | | | | | | 0.375 | | | 0.5 | | | | |
| | | | | | | | | 67.42 | | | 88.91 | | | | |
| 12 | 12.75 | 0.156 | 0.165 | 0.18 | 0.18 | 0.25 | 0.33 | 0.375 | 0.406 | 0.563 | 0.5 | 0.688 | 1 | 1.313 | 1 |
| | | 31.05 | 32.82 | 35.75 | 35.75 | 49.4 | 64.77 | 73.34 | 79.2 | 108.5 | 96.82 | 131.2 | 185.7 | 237.4 | |
| 16 | 16 | 0.156 | | 0.188 | 0.25 | 0.313 | 0.375 | 0.375 | 0.5 | 0.656 | 122.5 | 0.844 | 1.219 | 1.594 | |
| | | 41.29 | | 46.99 | 62.23 | 77.61 | 92.61 | 92.61 | 122.2 | 159.1 | | 202.2 | 284.8 | 363 | |
| 18 | 18 | 0.165 | | 0.188 | 0.25 | 0.313 | 0.438 | 0.375 | 0.563 | 0.75 | 0.5 | 0.938 | 1.375 | 1.781 | |
| | | 46.5 | | 52.92 | 70.13 | 87.49 | 121.6 | 104.5 | 155.2 | 204.5 | 138.3 | 253 | 361.3 | 456.6 | |
| 20 | 20 | 0.188 | | 0.29 | 0.25 | 0.25 | 0.375 | 0.563 | 0.375 | 0.688 | 0.969 | 0.5 | 1.219 | 1.81 | 2.344 |
| | | 82.31 | | 93.84 | 93.84 | 140 | 208.6 | 140 | 253.5 | 352.8 | 185.7 | 438.9 | 635.8 | 802.4 | |
| 24 | 24 | 0.219 | | 0.25 | 0.25 | 0.375 | 0.563 | 0.375 | 0.688 | 0.969 | 0.5 | 1.218 | 1.813 | 2.344 | |
| | | 82.31 | | 93.84 | 93.84 | 140 | 208.6 | 140 | 253.5 | 352.8 | 185.7 | 438.9 | 635.8 | 802.4 | |
| 30 | 30 | 0.25 | | 0.313 | 0.313 | 0.5 | 0.625 | 0.375 | | | 0.5 | | | | |
| | | 117.6 | | 146.9 | 146.9 | 233.1 | 290.2 | 175.6 | | | 233.1 | | | | |
| 36 | 36 | 0.25 | | 0.313 | | | 0.625 | 0.375 | 0.75 | | 0.5 | | | | |
| | | 141.3 | | 176.6 | | | | 211.2 | | | 280.6 | | | | |
| 42 | 42 | 0.25 | | 0.313 | | | | 0.375 | | | 0.5 | | | | |
| | | 164.9 | | 206.2 | | | | 246.7 | | | 328 | | | | |

Números superiores ESPESOR en pulgadas / Top figures WALL THICKNESS in inches
Números inferiores PESO en kg/metro promedio / Bottom figures WEIGHT per meters in kg.

# Bridas inoxidables 150lbs y 300 lbs

| 150 LB. | | | | | | | |
|---|---|---|---|---|---|---|---|
| Nom. Pipe size | O | C2 | Y2 | | | BOLT CIRCLE | No. and size of holes |
| | | | WELD NECK | SLIP ON THRD. | LAP JOINT | | |
| 1/2 | 3 1/2 | 1/16 | 1 7/8 | 3/8 | 3/8 | 2 3/8 | 4 - 5/8 |
| 3/4 | 3 7/8 | 1/2 | 2 1/16 | 3/8 | 2 3/4 | 2 3/8 | 4 - 5/8 |
| 1 | 4 1/4 | 9/16 | 2 1/16 | 11/16 | 11/16 | 3 1/8 | 4 - 5/8 |
| 1 2/4 | 4 5/8 | 1/8 | 2 1/4 | 13/16 | 13/16 | 3 1/2 | 4 - 5/8 |
| 1 1/2 | 5 | 11/16 | 2 3/16 | 7/8 | 7/8 | 3 1/8 | 4 - 5/8 |
| 2 | 6 | 3/4 | 2 1/2 | 1 | 1 | 4 3/4 | 4 - 3/4 |
| 2 1/2 | 7 | 7/8 | 2 3/4 | 1 1/8 | 1 1/8 | 5 1/2 | 4 - 3/4 |
| 3 | 7 1/2 | 15/16 | 2 3/4 | 1 3/16 | 1 3/16 | 6 | 4 - 3/4 |
| 3 1/2 | 8 1/2 | 15/16 | 2 11/16 | 1 1/4 | 1 1/4 | 7 | 8 - 3/4 |
| 4 | 9 | 15/17 | 3 | 1 5/16 | 1 5/16 | x | 8 - 3/4 |
| 5 | 10 | 15/18 | 3 1/2 | 1 7/16 | 1 7/16 | 8 1/2 | 8 - 3/4 |
| 6 | 11 | 1 | 4 1/2 | 1 6/16 | 1 6/16 | 9 1/2 | 8 - 7/8 |
| 8 | 13 1/2 | 1 1/4 | 1/2 | 1 3/4 | 1 3/4 | 11 3/4 | 8 - 7/8 |
| 10 | 16 | 1 3/16 | 1/2 | 1 15/16 | 1 5/16 | 14 1/4 | 8 - 7/8 |
| 12 | 19 | 1 1/4 | 4 1/2 | 2 3/16 | 2 3/16 | 17 | 8 - 7/8 |
| 14 | 21 | 1 3/8 | 5 | 2 1/4 | 1 1/8 | 18 3/4 | 8 - 7/8 |
| 16 | 23 1/2 | 1 7/16 | 5 | 2 1/2 | 3 7/16 | 21 1/4 | 8 - 7/8 |
| 18 | 25 | 1 3/14 | 5 1/2 | 2 11/16 | 3 3/16 | 22 3/4 | 8 - 7/8 |
| 20 | 27 1/2 | 1 11/16 | 5 11/16 | 2 7/8 | 4 1/16 | 25 | 8 - 7/8 |
| 24 | 32 | 1 7/8 | 6 | 3 1/4 | 4 3/8 | 29 1/2 | 8 - 7/8 |



Adymar Industriales, S. de R.L. de C.V.

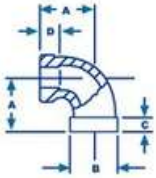
| 300 LB. | | | | | | | |
|---|---|---|---|---|---|---|---|
| Nom. Pipe size | O | C2 | Y2 | | | BOLT CIRCLE | No. and size of holes |
| | | | WELD NECK | SLIP ON THRD. | LAP JOINT | | |
| 1/2 | 3 3/4 | 3 3/4 | 2 1/16 | 7/8 | 7/8 | 2 5/8 | 4-5/8 |
| 3/4 | 4 5/8 | 5/8 | 2 1/4 | 1 | 1 | 3 1/4 | 4-3/4 |
| 1 | 4 7/8 | 11/16 | 2 7/16 | 1 1/16 | 1 1/16 | 3 1/2 | 4-3/4 |
| 1 2/4 | 5 1/4 | 3/4 | 2 6/16 | 1 1/16 | 1 1/16 | 3 7/8 | 4-3/4 |
| 1 1/2 | 6 1/8 | 11/16 | 2 11/14 | 1 1/16 | 1 1/16 | 4 1/2 | 4-3/4 |
| 2 | 6 1/2 | 1 1/4 | 2 3/4 | 1 3/16 | 1 3/16 | 5 | 4-7/8 |
| 2 1/2 | 7 1/2 | 1 | 3 | 1 1/2 | 1 1/2 | 5 7/8 | 4-7/8 |
| 3 | 8 1/4 | 1 7/16 | 3 1/4 | 1 1/16 | 1 1/16 | 6 5/8 | 8-7/8 |
| 3 1/2 | 9 | 1 3/16 | 3 1/16 | 1 3/8 | 1 3/8 | 7 1/4 | 8-7/8 |
| 4 | 10 | 1 1/4 | 3 1/8 | 1 7/8 | 1 7/8 | 7 7/8 | 8-7/8 |
| 5 | 11 | 1 3/8 | 3 7/8 | 2 | 2 | 2 | 8-7/8 |
| 6 | 12 1/2 | 1 7/16 | 3 1/8 | 2 1/16 | 2 1/16 | 2 1/16 | 12-7/8 |
| 8 | 15 | 1 5/8 | 4 3/8 | 2 1/16 | 2 1/16 | 13 | 12-1 |
| 10 | 17 1/2 | 1 7/8 | 4 3/8 | 2 5/8 | 3 3/4 | 15 1/4 | 16 - 1 1/8 |
| 12 | 20 1/2 | 2 | 5 1/8 | 2 7/8 | 4 | 17 3/4 | 16 - 1 1/4 |
| 14 | 23 | 2 1/8 | 5 5/8 | 3 | 4 3/8 | 20 1/4 | 20 - 1 1/4 |
| 16 | 25 1/2 | 2 1/4 | 5 3/4 | 3 1/4 | 4 3/4 | 22 1/2 | 20 - 1 3/8 |
| 18 | 28 | 2 1/4 | 6 1/4 | 3 1/2 | 5 1/2 | 24 3/4 | 24 - 1 3/8 |
| 20 | 30 1/2 | 2 1/2 | 6 3/4 | 3 3/4 | 5 1/2 | 27 | 24 - 1 3/8 |
| 24 | 36 | 2 3/4 | 6 3/8 | 4 1/16 | 6 | 32 | 24 - 1 3/8 |

# Conexion en hierro maleable y galvanizado 150 lbs

## Codo de 90° REF

*90° elbows, banded*

**150 lbs.**
**Hierro maleable**




| MEDIDA | A | B | C | D |
|---|---|---|---|---|
| 1/8" | 0.690 | 0.690 | 0.208 | 0.250 |
| 1/4" | 0.810 | 0.840 | 0.210 | 0.320 |
| 3/8" | 0.950 | 1.010 | 0.230 | 0.360 |
| 1/2" | 1.120 | 1.200 | 0.250 | 0.430 |
| 3/4" | 1.310 | 1.460 | 0.270 | 0.500 |
| 1" | 1.500 | 1.770 | 0.300 | 0.580 |
| 1 1/4" | 1.750 | 2.150 | 0.340 | 0.670 |
| 1 1/2" | 1.950 | 2.430 | 0.370 | 0.700 |
| 2" | 2.250 | 2.960 | 0.420 | 0.750 |
| 2 1/2" | 2.700 | 3.590 | 0.480 | 0.920 |
| 3" | 3.080 | 4.280 | 0.550 | 0.980 |
| 4" | 3.790 | 5.400 | 0.660 | 1.080 |
| 6" | 5.130 | 7.770 | 0.900 | 1.280 |



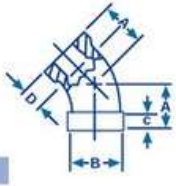
Adymar
Industriales, S. de R.L. de C.V.

## Codo de 45° REF

*45° elbows, banded*

**150 lbs.**

**Hierro maleable**



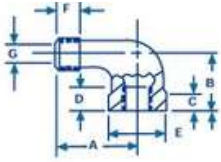

| MEDIDA | A | B | C | D |
|---|---|---|---|---|
| 1/4" | 0.730 | 0.840 | 0.210 | 0.320 |
| 3/8" | 0.800 | 1.010 | 0.230 | 0.360 |
| 1/2" | 0.880 | 1.200 | 0.250 | 0.430 |
| 3/4" | 0.980 | 1.460 | 0.270 | 0.500 |
| 1" | 1.120 | 1.770 | 0.300 | 0.580 |
| 1 1/4" | 1.290 | 2.150 | 0.340 | 0.670 |
| 1 1/2" | 1.430 | 2.430 | 0.370 | 0.700 |
| 2" | 1.680 | 2.960 | 0.420 | 0.750 |
| 2 1/2" | 1.950 | 3.590 | 0.480 | 0.920 |
| 3" | 2.170 | 4.280 | 0.550 | 0.980 |
| 4" | 2.610 | 5.400 | 0.660 | 1.080 |

## Codo niple 90°

*90° street elbows*

**150 lbs.**

**Hierro maleable**




| MEDIDA | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1/4" | 1.190 | 0.810 | 0.210 | 0.320 | 0.840 | 0.400 | 0.260 |
| 3/8" | 1.440 | 0.950 | 0.230 | 0.360 | 1.010 | 0.410 | 0.370 |
| 1/2" | 1.630 | 1.120 | 0.250 | 0.430 | 1.200 | 0.530 | 0.510 |
| 3/4" | 1.890 | 1.310 | 0.270 | 0.500 | 1.460 | 0.550 | 0.690 |
| 1" | 2.140 | 1.500 | 0.300 | 0.580 | 1.770 | 0.680 | 0.910 |
| 1 1/4" | 2.450 | 1.750 | 0.340 | 0.670 | 2.150 | 0.710 | 1.190 |
| 1 1/2" | 2.690 | 1.940 | 0.370 | 0.700 | 2.430 | 0.720 | 1.390 |
| 2" | 3.260 | 2.250 | 0.420 | 0.750 | 2.960 | 0.760 | 1.790 |



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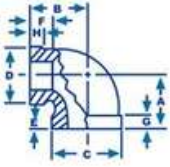
## Codo reducción de 90°

*90° reducing elbows, banded*

**150 lbs.**

**Hierro maleable**




| MEDIDA | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1/2 x 3/8" | 1.040 | 1.030 | 1.200 | 1.010 | 0.430 | 0.360 | 0.250 | 0.230 |
| 3/4 x 1/2" | 1.200 | 1.220 | 1.460 | 1.200 | 0.500 | 0.430 | 0.270 | 0.250 |
| 1 x 1/2" | 1.260 | 1.360 | 1.770 | 1.200 | 0.580 | 0.430 | 0.300 | 0.250 |
| 1 x 3/4" | 1.370 | 1.450 | 1.770 | 1.460 | 0.580 | 0.500 | 0.300 | 0.270 |
| 1 1/4 x 3/4" | 1.450 | 1.620 | 2.150 | 1.460 | 0.670 | 0.500 | 0.340 | 0.270 |
| 1 1/4 x 1" | 1.580 | 1.670 | 2.150 | 1.770 | 0.670 | 0.580 | 0.340 | 0.300 |
| 1 1/2 x 1" | 1.650 | 1.800 | 2.430 | 1.770 | 0.700 | 0.580 | 0.370 | 0.300 |
| 1 1/2 x 1 1/4" | 1.820 | 1.880 | 2.430 | 2.150 | 0.700 | 0.670 | 0.370 | 0.340 |
| 2 x 1 1/4" | 1.900 | 2.100 | 2.960 | 2.150 | 0.750 | 0.670 | 0.420 | 0.340 |
| 2 x 1 1/2" | 2.020 | 2.160 | 2.960 | 2.430 | 0.750 | 0.700 | 0.420 | 0.370 |



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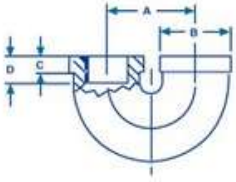
## Codo retorno

*Return bend open, banded*

**150 lbs.**
**Hierro maleable**

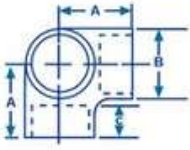



| MEDIDA | A | B | C | D |
|---|---|---|---|---|
| 1/2" | 1.500 | 1.200 | 0.250 | 0.430 |
| 3/4" | 2.000 | 1.460 | 0.270 | 0.500 |

## Codo rincón

*Side outlet elbows, plain*

**150 lbs.**
**Hierro maleable**




| MEDIDA | A | B | C |
|---|---|---|---|
| 1/2" | 1.10 | 1.000 | 0.43 |
| 3/4" | 1.300 | 1.290 | 0.50 |
| 1" | 1.500 | 1.520 | 0.58 |



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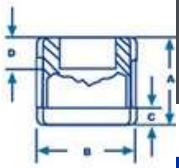
## Cople reforzado

*Couplings banded*

**150 lbs.**
**Hierro maleable**

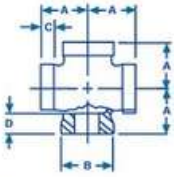



| MEDIDA | A | B | C | D |
|---|---|---|---|---|
| 1/4" | 1.060 | 0.840 | 0.210 | 0.320 |
| 3/8" | 1.160 | 1.010 | 0.230 | 0.360 |
| 1/2" | 1.340 | 1.200 | 0.250 | 0.430 |
| 3/4" | 1.520 | 1.460 | 0.270 | 0.500 |
| 1" | 1.670 | 1.770 | 0.300 | 0.580 |
| 1 1/4" | 1.930 | 2.150 | 0.340 | 0.670 |
| 1 1/2" | 2.180 | 2.430 | 0.370 | 0.700 |
| 2" | 2.530 | 2.960 | 0.420 | 0.750 |
| 2 1/2" | 2.680 | 3.590 | 0.480 | 0.920 |
| 3" | 3.180 | 4.280 | 0.550 | 0.980 |
| 4" | 3.690 | 5.400 | 0.660 | 1.080 |

## Cruz reforzada

*Crosses banded*

**150 lbs.**
**Hierro maleable**




| MEDIDA | A | B | C | D |
|---|---|---|---|---|
| 1/2" | 1.120 | 1.200 | 0.250 | 0.430 |
| 3/4" | 1.310 | 1.460 | 0.270 | 0.500 |
| 1" | 1.500 | 1.770 | 0.300 | 0.580 |
| 1 1/4" | 1.750 | 2.150 | 0.340 | 0.670 |
| 1 1/2" | 1.940 | 2.430 | 0.370 | 0.700 |
| 2" | 2.250 | 2.960 | 0.420 | 0.750 |
| 2 1/2" | 2.700 | 3.590 | 0.480 | 0.920 |
| 3" | 3.080 | 4.280 | 0.55( | |
| 4" | 3.790 | 5.400 | 0.66( | |



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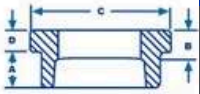
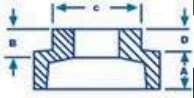
# Reducción bushing

*Bushings*

**150 lbs.**
**Hierro maleable**




| MEDIDA | A | B | C | D |
|---|---|---|---|---|
| 3/8 x 1/8" | 0.480 | 0.250 | 0.680 | 0.160 |
| 3/8 x 1/4" | 0.480 | 0.400 | 0.680 | 0.160 |
| 1/2 x 1/4" | 0.560 | 0.320 | 0.870 | 0.190 |
| 1/2 x 3/8" | 0.560 | 0.410 | 0.870 | 0.190 |
| 3/4 x 1/4" | 0.630 | 0.320 | 1.150 | 0.220 |
| 3/4 x 3/8" | 0.630 | 0.360 | 1.150 | 0.220 |
| 3/4 x 1/2" | 0.630 | 0.530 | 1.150 | 0.220 |
| 1 x 1/4" | 0.750 | 0.320 | 1.120 | 0.300 |
| 1 x 3/8" | 0.750 | 0.360 | 1.120 | 0.300 |
| 1 x 1/2" | 0.750 | 0.430 | 1.420 | 0.250 |
| 1 x 3/4" | 0.750 | 0.500 | 1.420 | 0.250 |
| 1 1/4 x 1/2" | 0.800 | 0.430 | 1.340 | 0.340 |
| 1 1/4 x 3/4" | 0.800 | 0.500 | 1.760 | 0.280 |
| 1 1/4 x 1" | 0.800 | 0.580 | 1.760 | 0.280 |
| 1 1/2 x 1/2" | 0.830 | 0.430 | 1.340 | 0.370 |
| 1 1/2 x 3/4" | 0.830 | 0.500 | 1.630 | 0.370 |
| 1 1/2 x 1" | 0.830 | 0.580 | 2.000 | 0.310 |
| 1 1/2 x 1 1/4" | 0.830 | 0.710 | 2.000 | 0.310 |
| 2 x 1/2" | 0.880 | 0.430 | 1.340 | 0.410 |
| 2 x 3/4" | 0.880 | 0.500 | 1.630 | 0.410 |
| 2 x 1" | 0.880 | 0.580 | 1.950 | 0.410 |
| 2 x 1 1/4" | 0.880 | 0.670 | 2.480 | 0.340 |
| 2 x 1 1/2" | 0.880 | 0.700 | 2.480 | 0.340 |
| 2 1/2 x 1" | 1.070 | 0.580 | 1.950 | 0.440 |
| 2 1/2 x 1 1/4" | 1.070 | 0.670 | 2.390 | 0.440 |
| 2 1/2 x 1 1/2" | 1.070 | 0.700 | 2.680 | 0.440 |
| 2 1/2 x 2" | 1.070 | 0.750 | 2.980 | 0.370 |
| 3 x 1" | 1.130 | 0.580 | 1.950 | 0.480 |
| 3 x 1 1/4" | 1.130 | 0.670 | 2.390 | 0.480 |
| 3 x 1 1/2" | 1.130 | 0.700 | 2.680 | 0.480 |
| 3 x 2" | 1.130 | 0.750 | 3.280 | 0.480 |
| 3 x 2 1/2" | 1.130 | 0.920 | 3.860 | 0.400 |
| 4 x 1" | 1.220 | 0.580 | 1.950 | 0.600 |
| 4 x 1 1/4" | 1.220 | 00.67 | 2.390 | 0.600 |
| 4 x 1 1/2" | 1.220 | 0.700 | 2.680 | 0.600 |
| 4 x 2" | 1.220 | 0.750 | 3.280 | 0.600 |
| 4 x 2 1/2" | 1.220 | 0.920 | 3.860 | 0.600 |
| 4 x 3" | 1.220 | 0.980 | 4.620 | 0.500 |
| 6 x 2" | 1.400 | 0.750 | 3.280 | 0.750 |
| 6 x 2 1/2" | 1.400 | 0.920 | 3.860 | 0.750 |
| 6 x 3" | 1.400 | 0.980 | 4.620 | 0.750 |
| 6 x 4" | 1.400 | 1.080 | 5.790 | 0.750 |



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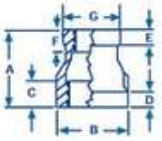
Industriales, S. de R.L. de C.V.

## Reducción Campana

Reducing Couplings

**150 lbs.**
**Hierro maleable**




| TAMAÑO | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 3/8 x 1/4" | 1.130 | 1.010 | 0.360 | 0.230 | 0.210 | 0.320 | 0.840 |
| 1/2 x 1/4" | 1.250 | 1.200 | 0.430 | 0.250 | 0.210 | 0.320 | 0.840 |
| 1/2 x 3/8" | 1.250 | 1.200 | 0.430 | 0.250 | 0.230 | 0.360 | 1.010 |
| 3/4 x 1/4" | 1.440 | 1.460 | 0.500 | 0.270 | 0.210 | 0.320 | 0.840 |
| 3/4 x 3/8" | 1.440 | 1.460 | 0.500 | 0.270 | 0.230 | 0.360 | 1.010 |
| 3/4 x 1/2" | 1.440 | 1.460 | 0.500 | 0.270 | 0.250 | 0.430 | 1.200 |
| 1 x 1/4" | 1.690 | 1.770 | 0.580 | 0.300 | 0.210 | 0.320 | 0.840 |
| 1 x 3/8" | 1.690 | 1.770 | 0.580 | 0.300 | 0.230 | 0.360 | 1.010 |
| 1 x 1/2" | 1.690 | 1.770 | 0.580 | 0.300 | 0.250 | 0.430 | 1.200 |
| 1 x 3/4" | 1.690 | 1.770 | 0.580 | 0.300 | 0.270 | 0.500 | 1.460 |
| 1 1/4 x 1/2" | 2.060 | 2.150 | 0.670 | 0.340 | 0.250 | 0.430 | 1.200 |
| 1 1/4 x 3/4" | 2.060 | 2.150 | 0.670 | 0.340 | 0.270 | 0.500 | 1.460 |
| 1 1/4 x 1" | 2.060 | 2.150 | 0.670 | 0.340 | 0.300 | 0.580 | 1.770 |
| 1 1/2 x 1/2" | 2.310 | 2.430 | 0.700 | 0.370 | 0.250 | 0.430 | 1.200 |
| 1 1/2 x 3/4" | 2.310 | 2.430 | 0.700 | 0.370 | 0.270 | 0.500 | 1.460 |
| 1 1/2 x 1" | 2.310 | 2.430 | 0.700 | 0.370 | 0.300 | 0.580 | 1.770 |
| 1 1/2 x 1 1/4" | 2.310 | 2.430 | 0.700 | 0.370 | 0.340 | 0.670 | 2.150 |
| 2 x 1/2" | 2.810 | 2.960 | 0.750 | 0.420 | 0.250 | 0.430 | 1.200 |
| 2 x 3/4" | 2.810 | 2.960 | 0.750 | 0.420 | 0.270 | 0.500 | 1.460 |
| 2 x 1" | 2.810 | 2.960 | 0.750 | 0.420 | 0.300 | 0.580 | 1.770 |
| 2 x 1 1/4" | 2.810 | 2.960 | 0.750 | 0.420 | 0.340 | 0.670 | 2.150 |
| 2 x 1 1/2" | 2.810 | 2.960 | 0.750 | 0.420 | 0.370 | 0.700 | 2.430 |
| 2 1/2 x 1/2" | 3.250 | 3.590 | 0.920 | 0.480 | 0.250 | 0.430 | 1.200 |
| 2 1/2 x 2" | 3.250 | 3.590 | 0.920 | 0.480 | 0.420 | 0.750 | 2.960 |
| 3 x 2 | 3.690 | 4.280 | 0.980 | 0.550 | 0.420 | 0.750 | 2.960 |
| 3 x 2 1/2 | 3.690 | 4.280 | 0.980 | 0.550 | 0.480 | 0.920 | 3.590 |
| 4 x 3 | 4.380 | 5.400 | 1.080 | 0.660 | 0.550 | 0.980 | 4.280 |

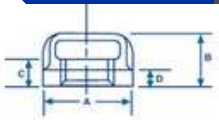


Adymar
Industriales, S. de R.L. de C.V.

## Tapón Cachucha

*Caps Banded*

**150 lbs.**
**Hierro maleable**




| MEDIDA | A | B | C | D |
|---|---|---|---|---|
| 3/8" | 1.010 | 0.740 | 0.360 | 0.230 |
| 1/2" | 1.200 | 0.870 | 0.430 | 0.250 |
| 3/4" | 1.460 | 0.970 | 0.500 | 0.270 |
| 1" | 1.770 | 1.160 | 0.580 | 0.300 |
| 1 1/4" | 2.150 | 1.280 | 0.670 | 0.340 |
| 1 1/2" | 2.430 | 1.330 | 0.700 | 0.370 |
| 2" | 2.460 | 1.450 | 0.750 | 0.420 |
| 2 1/2" | 3.590 | 1.700 | 0.920 | 0.480 |
| 3" | 4.280 | 1.800 | 0.980 | 0.550 |
| 4" | 5.400 | 2.080 | 1.080 | 0.660 |

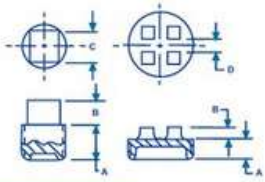
## Tapón Macho

*Plugs*

**150 lbs.**
**Hierro maleable**

CABEZA CUADRADA
3/8" - 3"

CABEZA CON RANURAS
4" - 6"



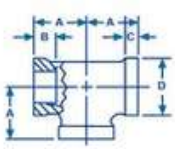

| MEDIDA | A | B | C | D |
|---|---|---|---|---|
| 3/8" | 0.480 | 0.310 | 0.4375 | - |
| 1/2" | 0.560 | 0.380 | 0.5625 | - |
| 3/4" | 0.630 | 0.440 | 0.6250 | - |
| 1" | 0.750 | 0.500 | 0.8125 | - |
| 1 1/4" | 0.800 | 0.560 | 0.9375 | - |
| 1 1/2" | 0.830 | 0.620 | 1.1250 | - |
| 2" | 0.880 | 0.680 | 1.3125 | - |
| 2 1/2" | 1.070 | 0.740 | 1.5000 | - |
| 3" | 1.130 | 0.800 | 1.687[5] | - |
| 4" | 1.220 | 1.000 | - | |
| 6" | 1.400 | 1.250 | - | |

Adymar
Industriales, S. de R.L. de C.V.

## Tee Reforzada

*Tees Banded*

**150 lbs.**
**Hierro maleable**

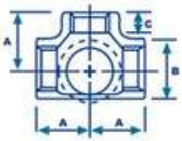



| MEDIDA | A | B | C | D |
|---|---|---|---|---|
| 1/4" | 0.810 | 0.320 | 0.210 | 0.840 |
| 3/8" | 0.950 | 0.360 | 0.230 | 1.010 |
| 1/2" | 1.120 | 0.430 | 0.250 | 1.200 |
| 3/4" | 1.310 | 0.500 | 0.270 | 1.460 |
| 1" | 1.500 | 0.580 | 0.300 | 1.770 |
| 1 1/4" | 1.750 | 0.670 | 0.340 | 2.150 |
| 1 1/2" | 1.950 | 0.700 | 0.370 | 2.430 |
| 2" | 2.250 | 0.750 | 0.420 | 2.960 |
| 2 1/2" | 2.700 | 0.920 | 0.480 | 3.590 |
| 3" | 3.080 | 0.980 | 0.550 | 4.280 |
| 4" | 3.790 | 1.080 | 0.660 | 5.400 |
| 6" | 5.130 | 1.280 | 0.900 | 7.770 |

## Tee Rincón

*Side outlet tees, plain*

**150 lbs.**
**Hierro maleable**




| MEDIDA | A | B | C |
|---|---|---|---|
| 1/2" | 1.10 | 1.140 | 0.430 |
| 3/4" | 1.300 | 1.390 | 0.500 |
| 1" | 1.500 | 1.705 | 0.580 |



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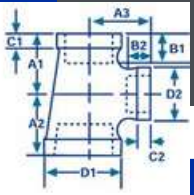
Industriales, S. de R.L. de C.V.

## Tee Reducción

Reducing tees, banded

**150 lbs.**
**Hierro maleable**

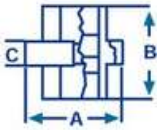



| TAMAÑO | A1 | A2 | A3 | B1 | B2 | C1 | C2 | D1 | D2 |
|---|---|---|---|---|---|---|---|---|---|
| 3/4 x 1/2" | 1.200 | 1.200 | 1.220 | 0.500 | 0.430 | 0.270 | 0.250 | 1.460 | 1.200 |
| 1x 3/4" | 1.370 | 1.370 | 1.450 | 0.580 | 0.500 | 0.300 | 0.270 | 1.770 | 1.460 |
| 1 x 1/2" | 1.260 | 1.260 | 1.360 | 0.580 | 0.430 | 0.300 | 0.250 | 1.770 | 1.200 |
| 1 1/2 x 1" | 1.650 | 1.650 | 1.800 | 0.700 | 0.580 | 0.370 | 0.300 | 2.430 | 1.770 |
| 2 x 1/2" | 1.500 | 1.500 | 1.870 | 0.750 | 0.430 | 0.480 | 0.250 | 2.960 | 1.200 |
| 2 x 1 1/2" | 2.020 | 2.020 | 2.160 | 0.750 | 0.700 | 0.480 | 0.370 | 2.960 | 2.430 |

## Tuerca Unión

*Unions, brass to iron seat*

**150 lbs.**
**Hierro maleable**




| MEDIDA | A | B | C |
|---|---|---|---|
| 1/4" | 1.290 | 1.440 | 0.560 |
| 3/8" | 1.440 | 1.610 | 0.630 |
| 1/2" | 1.760 | 1.790 | 0.700 |
| 3/4" | 1.960 | 2.020 | 0.712 |
| 1" | 2.160 | 2.120 | 0.780 |
| 1 1/4" | 2.750 | 2.260 | 0.860 |
| 1 1/2" | 2.990 | 2.440 | 0.880 |
| 2" | 3.620 | 2.750 | 1.000 |
| 2 1/2" | 4.540 | 3.260 | 1.200 |
| 3" | 5.060 | 3.530 | 1.220 |
| 4" | 6.080 | 3.950 | 1.430 |



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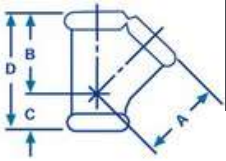
Industriales, S. de R.L. de C.V.

## Y Griega

*Y branches, banded*

**150 lbs.**
**Hierro maleable**

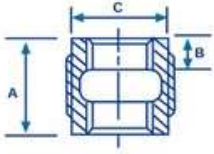



| MEDIDA | A | B | C | D |
|---|---|---|---|---|
| 1/2" | 1.710 | 1.710 | 0.610 | 2.320 |
| 3/4" | 2.050 | 2.050 | 0.720 | 2.770 |
| 1" | 2.430 | 2.430 | 0.850 | 3.280 |
| 1 1/4" | 2.920 | 2.920 | 1.020 | 3.940 |
| 1 1/2" | 3.280 | 3.280 | 1.100 | 4.380 |
| 2" | 3.930 | 3.930 | 1.240 | 5.170 |
| 2 1/2" | 4.730 | 4.730 | 1.520 | 6.250 |
| 3" | 5.550 | 5.550 | 1.710 | 7.260 |
| 4" | 6.970 | 6.970 | 2.010 | 8.980 |

## Cople Liso

*Coupling, plain*

**150 lbs.**
**Hierro maleable**




| MEDIDA | A | B | C |
|---|---|---|---|
| 3/8" | 1.160 | 0.360 | 0.870 |
| 1/2" | 1.340 | 0.430 | 1.050 |
| 3/4" | 1.520 | 0.500 | 1.318 |
| 1" | 1.670 | 0.580 | 1.605 |
| 1 1/4" | 1.930 | 0.670 | 1.950 |
| 1 1/2" | 2.150 | 0.700 | 2.375 |
| 2" | 2.530 | 0.750 | 2.575 |
| 2 1/2" | 2.880 | 0.920 | 3.320 |
| 3" | 3.180 | 0.980 | 3.950 |
| 4" | 3.690 | 1.080 | |



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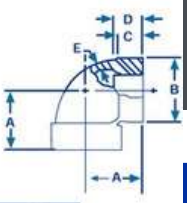
## Codo de 90° REF

*90° elbows, banded*

**300 lbs.**
**Hierro maleable**

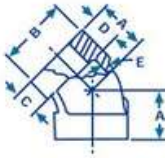



| MEDIDAS | A | B | C | D | E |
|---|---|---|---|---|---|
| 3/8" | 1.060 | 1.120 | 0.440 | 0.470 | 0.150 |
| 1/2" | 1.250 | 1.340 | 0.500 | 0.570 | 0.160 |
| 3/4" | 1.440 | 1.630 | 0.560 | 0.640 | 0.180 |
| 1" | 1.630 | 1.950 | 0.620 | 0.750 | 0.200 |
| 1 1/4" | 1.940 | 2.390 | 0.690 | 0.840 | 0.220 |
| 1 1/2" | 2.130 | 2.680 | 0.750 | 0.870 | 0.240 |
| 2" | 2.500 | 3.280 | 0.840 | 1.000 | 0.260 |
| 2 1/2" | 2.940 | 3.860 | 0.940 | 1.170 | 0.310 |
| 3" | 3.380 | 4.620 | 1.000 | 1.230 | 0.350 |
| 4" | 4.442 | 5.955 | 1.181 | 1.425 | 0.460 |

## Codo de 45° REF

*45° elbows, banded*

**300 lbs.**
**Hierro maleable**




| MEDIDAS | A | B | C | D | E |
|---|---|---|---|---|---|
| 1/2" | 1.000 | 1.340 | 0.500 | 0.570 | 0.16 |
| 3/4" | 1.130 | 1.630 | 0.560 | 0.640 | 0.18 |
| 1" | 1.310 | 1.950 | 0.620 | 0.750 | 0.20 |
| 1 1/4" | 1.500 | 2.390 | 0.690 | 0.840 | 0.22 |
| 1 1/2" | 1.690 | 2.680 | 0.750 | 0.870 | 0.24 |
| 2" | 2.000 | 3.280 | 0.840 | 1.000 | 0.26 |

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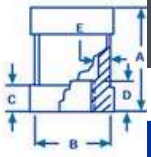
## Cople Reforzado

*Couplings banded*

**300 lbs.**
**Hierro maleable**

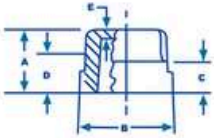



| MEDIDA | A | B | C | D | E |
|---|---|---|---|---|---|
| 1/2" | 1.870 | 1.340 | 0.500 | 0.570 | 0.16 |
| 3/4" | 2.120 | 1.630 | 0.560 | 0.640 | 0.18 |
| 1" | 2.370 | 1.950 | 0.620 | 0.750 | 0.20 |
| 1 1/4" | 2.870 | 2.390 | 0.690 | 0.084 | 0.22 |
| 1 1/2" | 2.870 | 2.680 | 0.750 | 0.870 | 0.24 |
| 2" | 3.620 | 3.280 | 0.840 | 1.000 | 0.26 |

## Tapón Cachucha

*Caps Banded*

**300 lbs.**
**Hierro maleable**




| MEDIDA | A | B | C | D | E |
|---|---|---|---|---|---|
| 1/2" | 0.980 | 1.340 | 0.500 | 0.570 | 0.16 |
| 3/4" | 1.080 | 1.630 | 0.560 | 0.640 | 0.18 |
| 1" | 1.260 | 1.950 | 0.620 | 0.750 | 0.20 |
| 1 1/4" | 1.380 | 2.390 | 0.690 | 0.840 | 0.22 |
| 1 1/2" | 1.430 | 2.680 | 0.750 | 0.870 | 0.24 |
| 2" | 1.680 | 3.280 | 0.840 | 1.000 | 0.26 |



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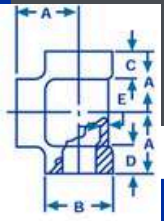
## Tee Reforzada

*Tees Banded*

**300 lbs.**
**Hierro maleable**

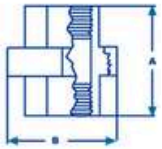



| MEDIDA | A | B | C | D | E |
|---|---|---|---|---|---|
| 3/8" | 1.060 | 1.120 | 0.440 | 0.470 | 0.150 |
| 1/2" | 1.250 | 1.340 | 0.500 | 0.570 | 0.160 |
| 3/4" | 1.440 | 1.630 | 0.560 | 0.640 | 0.180 |
| 1" | 1.630 | 1.950 | 0.620 | 0.750 | 0.200 |
| 1 1/4" | 1.940 | 2.390 | 0.690 | 0.840 | 0.220 |
| 1 1/2" | 2.130 | 2.680 | 0.750 | 0.870 | 0.240 |
| 2" | 2.500 | 3.280 | 0.840 | 1.000 | 0.260 |
| 2 1/2" | 2.940 | 3.860 | 0.940 | 1.170 | 0.310 |
| 3" | 3.380 | 4.620 | 1.000 | 1.230 | 0.350 |
| 4" | 4.600 | 5.930 | 1.110 | 1.300 | 0.460 |

## Tuerca Unión

*Unions, brass to iron seat*

**300 lbs.**
**Hierro maleable**




| MEDIDA | A | B |
|---|---|---|
| 1/2" | 1.810 | 1.760 |
| 3/4" | 2.120 | 2.150 |
| 1" | 2.310 | 2.480 |
| 1 1/4" | 2.660 | 3.020 |
| 1 1/2" | 2.850 | 3.280 |
| 2" | 3.230 | 3.960 |

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Propiedades mecánicas. Especificación ASTM A-197.

| | |
|---|---|
| Resistencia a la tensión | 40,000 psi – 2,670 kg/cm2 |
| Punto de cedencia | 30,000 psi – 2,000 kg/cm2 |
| Elongación en 2 pulgadas | 5% |

Composición química (%)

| Hierro | Carbón | Silicio | Manganeso | Fósforo | Azufre |
|---|---|---|---|---|---|
| 93.7% | 2.4% | 1.4% | 0.4% | 0.1% | 4.0% |

Especificaciones de ANSI/ASME

| | |
|---|---|
| Conexiones roscadas | B 16.3 |
| Tuerca unión | B 16.39 |
| Reducción bushing y tapón macho | B 16.14 |

## Presiones de trabajo

| Temperatura °C | CLASE 150 Conexiones roscadas Presión trabajo ASME B 16.3 Diam nom 1/4" a 6" psi | Tuerca unión ASME B 16.39 1/4" a 4" | CLASE 300 Conexiones roscadas Presión trabajo ASME B 16.3 Diam nom 1/4" a 1" psi | 1 1/4" a 2" psi | 2 1/2" a 3" psi | Tuerca unión ASME B 16.39 1/4" a 4" |
|---|---|---|---|---|---|---|
| -29 a 66 | 300 | 300 | 2,000 | 1,500 | 1,000 | 600 |
| 93 | 265 | 265 | 1,785 | 1,350 | 910 | 550 |
| 121 | 225 | 225 | 1,575 | 1,200 | 825 | 505 |
| 149 | 185 | 185 | 1,360 | 1,050 | 735 | 460 |
| 177 | 150 | 150 | 1,150 | 900 | 650 | 415 |
| 204 | ---- | 110 | 935 | 750 | 560 | 370 |
| 232 | ---- | 75 | 725 | 600 | 475 | 325 |
| 260 | ---- | ---- | 510 | 450 | 385 | 280 |
| 288 | ---- | ---- | 300 | 300 | 300 | 230 |

El codo niple no deberá ser sometido a presiones superiores a 600 psi.

Presion a prueba. A temperatura ambiente (22°C) puede probarse con agua o aire a una presión de 1,500 psi.

# Válvulas Worcester

SERIE 45
Sanitaria

SERIE
400 Sanitaria

SERIE 18
Multipuerto

SERIE 18
4-Vías

SERIE 15
3-Vías



Adymar
Industriales, S. de R.L. de C.V.

SERIE 400/600
3-Vias

SERIE F-152/F-302
A Prueba De Fuego

SERIE 6000

SERIE 6000
(ALTA PRESION 2500#)

SERIE H600
(ALTA PRESION)



Adymar
Industriales, S. de R.L. de C.V.

SERIE 600 BRIDADA
(PASO COMPLETO)

SERIE 150/300
(PASO COMPLETO)

SERIE 150/300
(PASO REDUCIDO)

SERIES
15

SERIE
45



Adymar
Industriales, S. de R.L. de C.V.

SERIE N44
FPI

VÁLVULAS DE MARIPOSA
TRIPLE EXCENTRICIDAD

VÁLVULAS DE MARIPOSA
DOBLE EXCENTRICIDAD

VÁLVULAS DE
MARIPOSA BIPARTIDAS



Adymar
Industriales, S. de R.L. de C.V.

SERIES 400
REDUCED BORE

SERIES
1000

ECONOMITE
SERIES 42



Adymar
Industriales, S. de R.L. de C.V.

# Válvulas mariposa WAFER

Válvula de mariposa WAFER, disco de acero inoxidable 316, cuerpo de fundicion nodular asiento refaccionable EPDM, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

| GGG-40 | EPOXY 250µ | 316 |
|---|---|---|
| CLASE 125/150 | EPDM | PALANCA |
| 1 1/2" - 6" 20 BAR (300 PSI) | -20°C / 120°C | |
| 8" - 12" 16 BAR (250 PSI) | | |

Válvula de mariposa WAFER, disco de acero inoxidable 316, cuerpo de fundicion nodular asiento refaccionable NBR, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

| GGG-40 | EPOXY 250µ | 316 |
|---|---|---|
| CLASE 125/150 | NBR | PALANCA |
| 2" - 6" 20 BAR (300 PSI) | -20°C / 80°C | |
| 8" - 12" 16 BAR (250 PSI) | | |

Válvula de mariposa WAFER, disco de acero inoxidable 316, cuerpo de fundicion nodular asiento refaccionable EPDM, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

| GGG-40 | EPOXY 250µ | 316 |
|---|---|---|
| CLASE 125/150 | EPDM | OPERADOR |
| 1 1/2" - 6" 20 BAR (300 PSI) | -20°C / 120°C | |
| 8" - 12" 16 BAR (250 PSI) | 14" - 24" 10 BAR (150 PSI) | |



Adymar Industriales, S. de R.L. de C.V.

Válvula de mariposa WAFER, disco de acero inoxidable 316, cuerpo de fundicion nodular asiento refaccionable NBR, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

GGG-40 | EPOXY 250µ | 316
CLASE 125/150 | NBR | OPERADOR
2" - 6" 20 BAR (300 PSI) | -20°C / 80°C
8" - 12" 16 BAR (250 PSI)

Válvula de mariposa WAFER, disco de acero inoxidable 316 recubierto de teflon, cuerpo bipartido de fundicion nodular asiento de teflon con alma de silicon, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

GGG-40 | EPOXY 250µ
316 | TEFLON | PALANCA
CLASE 125/150 | TEFLON + SILICON
16 BAR (250 PSI) | -20°C / 180°C

Válvula de mariposa WAFER, disco de acero inoxidable 316 recubierto de teflon, cuerpo bipartido de fundicion nodular asiento de teflon con alma de silicon, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

GGG-40 | EPOXY 250µ
316 | TEFLON | OPERADOR
CLASE 125/150 | TEFLON + SILICON
16 BAR (250 PSI) | -20°C / 180°C



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Válvula de mariposa WAFER, disco de fundicion ductil, cuerpo de fundicion gris (2" - 6") y de fundicion ductil (8" - 12"), asiento rigido, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

GG-25 (2"- 6") | GGG-40 (8"- 24")
GGG-40 | EPOXY 250µ
CLASE 125/150 | EPDM | PALANCA
2" - 12" 16 BAR (232 PSI)
-20°C / 120°C

Válvula de mariposa WAFER, disco de fundicion ductil, cuerpo de fundicion gris (2" - 6") y de fundicion ductil (8" - 24"), asiento rigido, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

GG-25 (2"- 6") | GGG-40 (8"- 24")
GGG-40 | EPOXY 250µ
CLASE 125/150 | EPDM | OPERADOR
2" - 12" 16 BAR (232 PSI) | 14" - 24" 10 BAR (150 PSI)
-20°C / 120°C

Válvula de mariposa WAFER, disco de fundición nodular recubierto en poliamida 11 (RILSAN), cuerpo de fundicion nodular, asiento refaccionable EPDM, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

GGG-40 | EPOXY 250µ | GGG-40
CLASE 125/150 | EPDM | PALANCA
2" - 8" 20 BAR (300 PSI) | -20°C / 120°C
8" - 12" 16 BAR (232 PSI)



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Válvula de mariposa WAFER, disco de fundición nodular recubierto en poliamida 11 (RILSAN), cuerpo de fundicion nodular, asiento refaccionable NBR, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

| GGG-40 | EPOXY 250µ | GGG-40 |
|---|---|---|
| CLASE 125/150 | NBR | PALANCA |
| 2" - 6" 20 BAR (300 PSI) | -20°C / 80°C | |
| 8" - 12" 16 BAR (250 PSI) | | |

Válvula de mariposa WAFER, disco de fundición nodular recubierto en poliamida 11 (RILSAN), cuerpo de fundicion nodular, asiento refaccionable EPDM, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

| GGG-40 | EPOXY 250µ | GGG-40 |
|---|---|---|
| CLASE 125/150 | EPDM | OPERADOR |
| 2" - 6" 20 BAR (300 PSI) | -20°C / 120°C | |
| 8" - 12" 16 BAR (250 PSI) | 14" - 24" 10 BAR (150 PSI) | |

Válvula de mariposa WAFER, disco de fundición nodular recubierto en poliamida 11 (RILSAN), cuerpo de fundicion nodular, asiento refaccionable NBR, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

| GGG-40 | EPOXY 250µ | GGG-40 |
|---|---|---|
| CLASE 125/150 | NBR | OPERADOR |
| 2" - 6" 20 BAR (300 PSI) | -20°C / 80°C | |
| 8" - 12" 16 BAR (250 PSI) | | |



Adymar
Industriales, S. de R.L. de C.V.

Válvula de mariposa LUG, disco de acero inoxidable 316, cuerpo de fundicion nodular, asiento refaccionable NBR
bridas preparadas segun norma ANSI 150

GGG-40 | EPOXY 250µ | 316
ANSI 150 | NBR | PALANCA
-20°C / 80°C
2" - 12" 16 BAR (250 PSI)

Válvula de mariposa LUG, disco de acero inoxidable 316, cuerpo de fundicion nodular, asiento refaccionable EPDM
bridas preparadas segun norma ANSI 150

GGG-40 | EPOXY 250µ | 316
ANSI 150 | EPDM | PALANCA
-20°C / 120°C
2" - 12" 16 BAR (250 PSI)

Válvula de mariposa LUG, disco de acero inoxidable 316, cuerpo de fundicion nodular, asiento refaccionable NBR
bridas preparadas segun norma ANSI 150

GGG-40 | EPOXY 250µ | 316
ANSI 150 | NBR | OPERADOR
-20°C / 80°C
2" - 12" 16 BAR (250 PSI)



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Válvula de mariposa LUG, disco de acero inoxidable 316, cuerpo de fundicion nodular, asiento refaccionable EPDM
bridas preparadas segun norma ANSI 150

GGG-40 | EPOXY 250µ | 316
ANSI 150 | EPDM | OPERADOR
-20°C / 120°C
2" - 12" 16 BAR (230 PSI)

Válvula de mariposa LUG, disco de acero inoxidable 316, cuerpo de fundicion nodular, asiento refaccionable EPDM
bridas preparadas segun norma ANSI 150

GGG-40 | EPOXY 250µ | 316
ANSI 150 | EPDM | OPERADOR
-20°C / 120°C
2" - 12" 16 BAR (230 PSI)

Válvula de retencion doble disco de acero inoxidable 304 (DUOCHECK) cuerpo de fundicion nodular, bridas EN-1092-2 PN-10/PN-16, ANSI B16.5.

GGG-40 | EPOXY 250µ
CLASE 125/150 | EPDM | 304
MIN 0.02 - 0.04 BAR | 16 BAR (230 PSI)
-10°C / 80°C



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# Trampas termodinámicas


TRAMPA TERMODINAMICA TD-52 SPIRAX SARCO

MO – Presión máxima de operación 42 kg/cm2
TMO – Temperatura máxima de operación 430°C
PMOB – Contrapresión máxima: no puede exceder el 80% de la presión de entrada
Presión diferencial admisible mínima para trabajar satisfactoriamente 0,250 kg/cm2
Totalmente en Inoxidable



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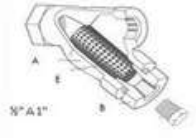
# Filtro tipo "Y" hierro fundido # 250 LBS

**FILTRO "Y" HIERRO FUNDIDO** **DE ½" A 3" ROSCADO** **MODELO S.H**

| MODELO | S.H |
|---|---|
| MEDIDAS | ½" A 3" |
| CONEXIONES | NPT |
| MATERIAL | HIERRO FUNDIDO |
| PRESION MAXIMA DE VAPOR SATURADO | 250 psig |
| CEDAZO ESTÁNDAR | LAMINA INOXIDABLE T-304 CON PERFORACIONES DE 1/32" |
| MATERIALES OPCIONALES | MALLA DE DISTINTOS TAMAÑOS BUSHING Y TAPON DE HIERRO MALEABLE |





**CUERDA NPT DE ACUERDO A ANSI B2.1**

**CONDICIONES DE DISEÑO:**

PRESION MAX. PERMITIDA 21Kg / cm² g / -29°c-65°c
300psig / -20-150°F
TEMPERATURA MAX. PERMITIDA 208° C/ 0-18 Kg / cm² g
406°F / 0-250 psig

| MATERIALES DE CONSTRUCCION | | |
|---|---|---|
| LETRA | PARTE | MATERIAL |
| A | CUERPO | HIERRO FUNDIDO ASTM A-126 CL B |
| B | BUSHING Y TAPON M. | HIERRO MALEABLE ASTM A-197 |
| C | TAPA | HIERRO FUNDIDO ASTM A-126 CL B |
| D | JUNTA DE TAPA | ASBESTO GRAFITADO Y/O TEFLON |
| E | CEDAZO STANDAR | ACERO INOX. T-304 |
| F | TORNILLOS DE TAPA | ACERO ASTM A-449 GS |
| G | PINTURA | ANTICORROSIVA |

| VALOR de Cv Y AREA LIBRE (CEDAZO ESTAGIAR) | | | |
|---|---|---|---|
| Tamaño | Cv | Área Libre (in²) | Rel. Filtración |
| ½" | 6.1 | 1.413 | 4.61:1 |
| ¾" | 10.8 | 2.45 | 3.79:1 |
| 1" | 18.6 | 2.89 | 3.51:1 |
| 1 ¼" | 26.1 | 5.97 | 3.99:1 |
| 1 ½" | 35.4 | 5.97 | 2.47:1 |
| 2" | 68.2 | 9.24 | 2.75:1 |
| 2 ½" | 94.5 | 12.93 | 2.70:1 |
| 3" | 147.3 | 17.6 | 2.38:1 |



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# Empaque de neopreno Y Flexitallic para bridas # 150 Y # 300

EMPAQUE DE NEOPRENO Y FLEXITALLIC PARA BRIDAS # 150 Y # 300

Empaque de neopreno para brida de 3/4"" hasta 12"
Alta calidad súper fijación y sellado hermético.
ANSI 150 Y 125
Totalmente funcional para sistemas BRIDADOS.
Empaque FLEXITALIC CG 150lbs Y 300lbs en grafito en ACERO INOX 304 y 316



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# Cinta teflon Garlock PTFE premium y Empco

**I. DENOMINACIÓN TÉCNICA**

Cinta de resina granular virgen de alta densidad de Politetrafluoroetileno de alto rendimient
no sinterizado en forma de cinta.


**II. APLICACIONES**

Recomendado para uniones roscadas en tuberías de acero inoxidable, cobre, plástico, bron
metal galvanizado o aluminio. Para el sellado de cuerdas macho de tuberías, es químicamen
inerte y resistente a la corrosión. Es un producto no tóxico, no endurece, no es inflamable ni
absorbente, para industria de gases, alimenticia**, química, etc.

**III. CARACTERÍSTICAS TÉCNICAS**

| | |
|---|---|
| Tipo de Resina: | Tipo II (ASTM D4894 |
| Color: | Blanco |
| Temperatura de Operación: | -240°C (-400°F) → +260°C (500°F) |
| Absorción de Humedad | Ninguna |

**IV. ESPECIFICACIONES BAJO MÉTODOS DE PRUEBA**

| CARACTERÍSTICAS | REFERENCIA | ESPECIFICACIÓN |
|---|---|---|
| Norma | AA-58092 | AA-58092 |
| Espesor | AA-58092-2.1 | 0.0035" Tolerancia +0.001" -0.0005" |
| Resina | AA-58092-3.4 | 99% Politetrafluoroetileno |
| **No flamable** | AA-58092-3.4 | No debe contener ningún material combustible en presencia de oxigeno hasta 260°C |
| Elongación | D-882 | 50% Min sin romperse ó desgarrarse |
| Gravedad especifica | D-792 | 1.2 |

**IV. ESPECIFICACIONES BAJO MÉTODOS DE PRUEBA**

| LONGITUD DEL CARRETE | ANCHOS DISPONIBLES | ESPESOR DE CINTA |
|---|---|---|
| 13.20 mts. | 1/2; 3/4; 1" | 0.0035" +0.001" / -0.0005" |
| 6.60 mts | 1/2; 3/4; 1" | |