

SECTION 10

Code Description Size

FIRE PIPE

HYDRANT PIPE - LW GALVANISED R/G BOTH ENDS

| | |
|-----------------|--------------------------|
| PIPE-HYLGRG-100 | 3.04mm 6L 100mm |
| PIPE-HYLGRG-150 | 3.4mm 6L 150mm (165.1OD) |
| PIPE-HYLGRG-200 | 4.8mm 6L 200mm |

MEDIUM PIPE - M/W GALVANISED R/G BOTH ENDS

| | |
|-----------------|------------------------|
| PIPE-HYMGRG-25 | 6.5m L 25mm |
| PIPE-HYMGRG-32 | 6.5m L 32mm |
| PIPE-HYMGRG-40 | 6.5m L 40mm |
| PIPE-HYMGRG-50 | 6.5m L 50mm |
| PIPE-HYMGRG-65 | 6.5m L 65mm (76.1OD) |
| PIPE-HYMGRG-80 | 6.5m L 80mm |
| PIPE-HYMGRG-100 | 6.5m L 100mm |
| PIPE-HYMGRG-150 | 6.5m L 150mm (165.1OD) |
| PIPE-HYMGRG-200 | 6.5m L 200mm |

MEDIUM PIPE - M/W PRIMED RED R/G BOTH ENDS

| | |
|------------------|------------------------|
| PIPE-HYMPRG1-50 | 6.5m L 50mm |
| PIPE-HYMPRG1-65 | 6.5m L 65mm (76.1OD) |
| PIPE-HYMPRG1-80 | 6.5m L 80mm |
| PIPE-HYMPRG1-100 | 6.5m L 100mm |
| PIPE-HYMPRG1-150 | 6.5m L 150mm (165.1OD) |
| PIPE-HYMPRG1-200 | 6.5m L 200mm |

MEDIUM PIPE - M/W GALVANISED THD BOTH ENDS

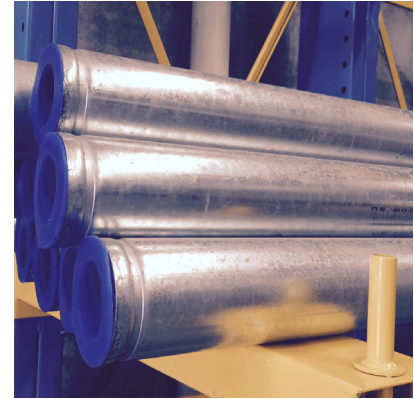
| | |
|---------------|-------------|
| PIPE-MGTHD-25 | 6.5m L 25mm |
| PIPE-MGTHD-32 | 6.5m L 32mm |
| PIPE-MGTHD-40 | 6.5m L 40mm |
| PIPE-MGTHD-50 | 6.5m L 50mm |

MEDIUM PIPE - M/W PRIMED RED THD BOTH ENDS

| | |
|---------------|-------------|
| PIPE-MPTHD-25 | 6.5m L 25mm |
| PIPE-MPTHD-32 | 6.5m L 32mm |
| PIPE-MPTHD-40 | 6.5m L 40mm |
| PIPE-MPTHD-50 | 6.5m L 50mm |

MEDIUM PIPE - GALVANISED THD ONE END 3.25M LENGTH

| | |
|----------------|-------------|
| PIPE-MGTHD-25H | 6.5m L 25mm |
| PIPE-MGTHD-32H | 6.5m L 32mm |
| PIPE-MGTHD-40H | 6.5m L 40mm |
| PIPE-MGTHD-50H | 6.5m L 50mm |



Code

Description

Size

SECTION 10

MEDIUM PIPE - PRIMED RED THD ONE END 3.25M LENGTH

| | |
|---------------|------|
| PIPE-MPTH-25H | 25mm |
| PIPE-MPTH-32H | 32mm |
| PIPE-MPTH-40H | 40mm |
| PIPE-MPTH-50H | 50mm |

SECTION 10

AS1074/AS1163 CHS PIPE SIZE AND WEIGHT

| Size (mm) NB | Weight Class | OD mm | Wall Thickness mm | KG per Metre | Pieces Per BDL | STD Length (M) | Bundle Weight (MT) |
|-----------------|-----------------|----------|----------------------|-----------------|-------------------|-------------------|-----------------------|
| 15 | L | 21.3 | 2 | 0.947 | 217 | 6.5 | 1.336 |
| 15 | M | 21.3 | 2.6 | 1.21 | 217 | 6.5 | 1.707 |
| 15 | H | 21.3 | 3.2 | 1.44 | 217 | 6.5 | 2.031 |
| 20 | XL | 26.9 | 2 | 1.23 | 127 | 6.5 | 1.015 |
| 20 | L | 26.9 | 2.3 | 1.38 | 127 | 6.5 | 1.139 |
| 20 | M | 26.9 | 2.6 | 1.56 | 127 | 6.5 | 1.288 |
| 20 | H | 26.9 | 3.2 | 1.87 | 127 | 6.5 | 1.544 |
| 25 | XL | 33.7 | 2 | 1.56 | 91 | 6.5 | 0.923 |
| 25 | L | 33.7 | 2.6 | 1.98 | 91 | 6.5 | 1.171 |
| 25 | M | 33.7 | 3.2 | 2.41 | 91 | 6.5 | 1.426 |
| 25 | H | 33.7 | 4 | 2.94 | 91 | 6.5 | 1.739 |
| 32 | XL | 42.4 | 2 | 1.99 | 91 | 6.5 | 1.177 |
| 32 | L | 42.4 | 2.6 | 2.54 | 91 | 6.5 | 1.502 |
| 32 | M | 42.4 | 3.2 | 3.1 | 61 | 6.5 | 1.229 |
| 32 | H | 42.4 | 4 | 3.8 | 61 | 6.5 | 1.507 |
| 40 | XL | 48.3 | 2.3 | 2.61 | 61 | 6.5 | 1.035 |
| 40 | L | 48.3 | 2.9 | 3.23 | 61 | 6.5 | 1.281 |
| 40 | M | 48.3 | 3.2 | 3.57 | 61 | 6.5 | 1.416 |
| 40 | H | 48.3 | 4 | 4.38 | 61 | 6.5 | 1.737 |
| 40 | XH | 48.3 | 5.4 | 5.71 | 61 | 6.5 | 2.264 |
| 50 | XL | 60.3 | 2.3 | 3.29 | 37 | 6.5 | 0.791 |
| 50 | L | 60.3 | 2.9 | 4.08 | 37 | 6.5 | 0.981 |
| 50 | M | 60.3 | 3.6 | 5.03 | 37 | 6.5 | 1.210 |
| 50 | H | 60.3 | 4.5 | 6.19 | 37 | 6.5 | 1.489 |
| 50 | XH | 60.3 | 5.4 | 7.31 | 37 | 6.5 | 1.758 |
| 65 | XL | 76.1 | 2.3 | 4.19 | 37 | 6.5 | 1.008 |

SECTION 10

AS1074/AS1163 CHS PIPE SIZE AND WEIGHT

SECTION 10

| Size (mm) NB | Weight Class | OD mm | Wall Thickness mm | KG per Metre | Pieces Per BDL | STD Length (M) | Bundle Weight (MT) |
|-----------------|-----------------|----------|----------------------|-----------------|-------------------|-------------------|-----------------------|
| 65 | L | 76.1 | 3.2 | 5.71 | 37 | 6.5 | 1.373 |
| 65 | M | 76.1 | 3.6 | 6.43 | 37 | 6.5 | 1.546 |
| 65 | H | 76.1 | 4.5 | 7.93 | 37 | 6.5 | 1.907 |
| 65 | XH | 76.1 | 5.9 | 10.2 | 37 | 6.5 | 2.453 |
| 80 | XL | 88.9 | 2.6 | 5.53 | 19 | 6.5 | 0.683 |
| 80 | L | 88.9 | 3.2 | 6.72 | 19 | 6.5 | 0.830 |
| 80 | M | 88.9 | 4 | 8.37 | 19 | 6.5 | 1.034 |
| 80 | H | 88.9 | 5 | 10.3 | 19 | 6.5 | 1.272 |
| 80 | XH | 88.9 | 5.9 | 12.1 | 19 | 6.5 | 1.494 |
| 90 | XL | 101.6 | 2.6 | 6.35 | 19 | 6.5 | 0.784 |
| 90 | L | 101.6 | 3.2 | 7.77 | 19 | 6.5 | 0.960 |
| 90 | M | 101.6 | 4 | 9.63 | 19 | 6.5 | 1.189 |
| 90 | H | 101.6 | 5 | 11.91 | 19 | 6.5 | 1.471 |
| 100 | XL | 114.3 | 3.2 | 8.77 | 19 | 6.5 | 1.083 |
| 100 | L | 114.3 | 3.6 | 9.75 | 19 | 6.5 | 1.204 |
| 100 | M | 114.3 | 4.5 | 12.2 | 19 | 6.5 | 1.507 |
| 100 | H | 114.3 | 5.4 | 14.5 | 19 | 6.5 | 1.791 |
| 125 | XL | 139.7 | 3 | 10.1 | 13 | 6.5 | 0.853 |
| 125 | L | 139.7 | 3.5 | 11.8 | 13 | 6.5 | 0.997 |
| 125 | M | 139.7 | 5 | 16.6 | 13 | 6.5 | 1.403 |
| 125 | H | 139.7 | 5.4 | 17.9 | 13 | 6.5 | 1.513 |
| 150 | XL | 165.1 | 3 | 12 | 10 | 6.5 | 0.780 |
| 150 | L | 165.1 | 3.5 | 13.9 | 10 | 6.5 | 0.904 |
| 150 | M | 165.1 | 5 | 19.7 | 10 | 6.5 | 1.281 |
| 150 | H | 165.1 | 5.4 | 21.3 | 10 | 6.5 | 1.385 |

SECTION 7

PIPE

CARBON STEEL GRADE B PIPES - ASTM A53M, A106M, API 5L, SEAMLESS

Maximum Allowable Operating Pressure (MPa)

| Nominal Size | | Outside Diameter (mm) | Schedule | | Wall Thickness (mm) | Temperature (°C) | | | | | | |
|--------------|-------|-----------------------|----------|-------|---------------------|--------------------------------|-------|-------|-------|-------|------|------|
| (DN) | (NPS) | | | | | -29 to +38 | 204 | 260 | 343 | 371 | 399 | 427 |
| | | | | | | Maximum Allowable Stress (MPa) | | | | | | |
| | | | | | | 137.9 | 137.9 | 130.3 | 117.2 | 113.8 | 89.6 | 74.5 |
| 15 | ½ | 21.3 | STD | 40 | 2.77 | 34.5 | 34.5 | 32.6 | 29.3 | 28.5 | 22.4 | 18.6 |
| 20 | ¾ | 26.7 | STD | 40 | 2.87 | 28.1 | 28.1 | 26.5 | 23.8 | 23.1 | 18.2 | 15.1 |
| | | | XS | 80 | 3.91 | 39.4 | 39.4 | 37.2 | 33.5 | 32.5 | 25.6 | 21.3 |
| 25 | 1 | 33.4 | STD | 40 | 3.38 | 26.3 | 26.3 | 24.8 | 22.3 | 21.7 | 17.1 | 14.2 |
| | | | XS | 80 | 4.55 | 36.3 | 36.3 | 34.3 | 30.9 | 30.0 | 23.6 | 19.6 |
| 32 | 1¼ | 42.2 | STD | 40 | 3.56 | 21.6 | 21.6 | 20.4 | 18.4 | 17.8 | 14.1 | 11.7 |
| | | | XS | 80 | 4.85 | 30.2 | 30.2 | 28.5 | 25.6 | 24.9 | 19.6 | 16.3 |
| | | | | 160 | 6.35 | 40.6 | 40.6 | 38.4 | 34.5 | 33.5 | 26.4 | 21.9 |
| 40 | 1½ | 48.3 | STD | 40 | 3.68 | 19.4 | 19.4 | 18.4 | 16.5 | 16.0 | 12.6 | 10.5 |
| | | | XS | 80 | 5.08 | 27.4 | 27.4 | 25.9 | 23.3 | 22.6 | 17.8 | 14.8 |
| | | | | 160 | 7.14 | 39.8 | 39.8 | 37.6 | 33.8 | 32.8 | 25.9 | 21.5 |
| 50 | 2 | 60.3 | STD | 40 | 3.91 | 16.4 | 16.4 | 15.5 | 13.9 | 13.5 | 10.7 | 8.9 |
| | | | XS | 80 | 5.54 | 23.7 | 23.7 | 22.4 | 20.1 | 19.5 | 15.4 | 12.8 |
| | | | | 160 | 8.74 | 38.9 | 38.9 | 36.8 | 33.1 | 32.1 | 25.3 | 21.0 |
| 65 | 2½ | 73.0 | STD | 40 | 5.16 | 17.9 | 17.9 | 17.0 | 15.3 | 14.8 | 11.7 | 9.7 |
| | | | XS | 80 | 7.01 | 24.8 | 24.8 | 23.5 | 21.1 | 20.5 | 16.1 | 13.4 |
| | | | | 160 | 9.53 | 34.7 | 34.7 | 32.8 | 29.5 | 28.6 | 22.5 | 18.7 |
| 80 | 3 | 88.9 | STD | 40 | 5.49 | 15.6 | 15.6 | 14.7 | 13.2 | 12.8 | 10.1 | 8.4 |
| | | | XS | 80 | 7.62 | 22.0 | 22.0 | 20.8 | 18.7 | 18.2 | 14.3 | 11.9 |
| | | | | 160 | 11.13 | 33.1 | 33.1 | 31.3 | 28.1 | 27.3 | 21.5 | 17.9 |
| 100 | 4 | 114.3 | STD | 40 | 6.02 | 13.2 | 13.2 | 12.5 | 11.2 | 10.9 | 8.6 | 7.1 |
| | | | XS | 80 | 8.56 | 19.1 | 19.1 | 18.0 | 16.2 | 15.7 | 12.4 | 10.3 |
| | | | | 120 | 11.13 | 25.2 | 25.2 | 23.8 | 21.4 | 20.8 | 16.4 | 13.6 |
| | | | | 160 | 13.49 | 31.0 | 31.0 | 29.3 | 26.4 | 25.6 | 20.2 | 16.8 |
| | | XXS | | 17.12 | 40.4 | 40.4 | 38.2 | 34.3 | 33.3 | 26.2 | 21.8 | |
| 125 | 5 | 141.3 | STD | 40 | 6.55 | 11.6 | 11.6 | 10.9 | 9.8 | 9.5 | 7.5 | 6.2 |
| | | | XS | 80 | 9.53 | 17.1 | 17.1 | 16.1 | 14.5 | 14.1 | 11.1 | 9.2 |
| | | | | 120 | 12.7 | 23.1 | 23.1 | 21.9 | 19.7 | 19.1 | 15.0 | 12.5 |
| | | | | 160 | 15.88 | 29.4 | 29.4 | 27.8 | 25.0 | 24.3 | 19.1 | 15.9 |
| | | XXS | | 19.05 | 35.9 | 35.9 | 33.9 | 30.5 | 29.6 | 23.4 | 19.4 | |
| 150 | 6 | 168.3 | STD | 40 | 7.11 | 10.5 | 10.5 | 9.9 | 8.9 | 8.7 | 6.8 | 5.7 |
| | | | XS | 80 | 10.97 | 16.5 | 16.5 | 15.6 | 14.0 | 13.6 | 10.7 | 8.9 |
| | | | | 120 | 14.27 | 21.8 | 21.8 | 20.6 | 18.5 | 17.9 | 14.1 | 11.7 |
| | | | | 160 | 18.26 | 28.3 | 28.3 | 26.8 | 24.1 | 23.4 | 18.4 | 15.3 |
| 200 | 8 | 219.1 | | 20 | 6.35 | 7.1 | 7.1 | 6.7 | 6.1 | 5.9 | 4.6 | 3.9 |
| | | | | 30 | 7.04 | 7.9 | 7.9 | 7.5 | 6.7 | 6.5 | 5.2 | 4.3 |
| | | | STD | 40 | 8.18 | 9.3 | 9.3 | 8.7 | 7.9 | 7.6 | 6.0 | 5.0 |
| | | | | 60 | 10.31 | 11.7 | 11.7 | 11.1 | 10.0 | 9.7 | 7.6 | 6.3 |
| | | | XS | 80 | 12.7 | 14.6 | 14.6 | 13.8 | 12.4 | 12.0 | 9.5 | 7.9 |
| | | | | 100 | 15.09 | 17.5 | 17.5 | 16.5 | 14.8 | 14.4 | 11.4 | 9.4 |
| | | | | 120 | 18.26 | 21.4 | 21.4 | 20.2 | 18.2 | 17.6 | 13.9 | 11.5 |
| | | | | 140 | 20.62 | 24.3 | 24.3 | 23.0 | 20.7 | 20.1 | 15.8 | 13.1 |
| | | | | XXS | 22.23 | 26.4 | 26.4 | 24.9 | 22.4 | 21.7 | 17.1 | 14.2 |
| | 160 | 23.01 | 27.4 | 27.4 | 25.8 | 23.3 | 22.6 | 17.8 | 14.8 | | | |

SECTION 10

PIPE



CARBON STEEL GRADE B PIPES - ASTM A53M, A106M, API 5L, SEAMLESS

Maximum Allowable Operating Pressure (MPa)

SECTION 10

| "Nominal Size" | | Outside Diameter (mm) | Schedule | Wall Thickness (mm) | Temperature (°C) | | | | | | | |
|----------------|-------|-----------------------|----------|---------------------|--------------------------------|-------|-------|-------|------|------|------|------|
| (DN) | (NPS) | | | | -29 to +38 | 204 | 260 | 343 | 371 | 399 | 427 | |
| | | | | | Maximum Allowable Stress (MPa) | | | | | | | |
| | | | | 137.9 | 137.9 | 130.3 | 117.2 | 113.8 | 89.6 | 74.5 | | |
| 250 | 10 | 273.1 | | 20 | 6.35 | 5.7 | 5.7 | 5.4 | 4.8 | 4.7 | 3.7 | 3.1 |
| | | | | 30 | 7.8 | 7.0 | 7.0 | 6.6 | 6.0 | 5.8 | 4.6 | 3.8 |
| | | | STD | 40 | 9.27 | 8.4 | 8.4 | 7.9 | 7.1 | 6.9 | 5.5 | 4.5 |
| | | | XS | 60 | 12.7 | 11.6 | 11.6 | 11.0 | 9.9 | 9.6 | 7.5 | 6.3 |
| | | | | 80 | 15.09 | 13.9 | 13.9 | 13.1 | 11.8 | 11.4 | 9.0 | 7.5 |
| | | | | 100 | 18.26 | 16.9 | 16.9 | 16.0 | 14.4 | 14.0 | 11.0 | 9.1 |
| | | | | 120 | 21.44 | 20.0 | 20.0 | 18.9 | 17.0 | 16.5 | 13.0 | 10.8 |
| | | | XXS | 140 | 25.4 | 24.0 | 24.0 | 22.7 | 20.4 | 19.8 | 15.6 | 13.0 |
| | 160 | 28.58 | 27.3 | 27.3 | 25.8 | 23.2 | 22.5 | 17.7 | 14.7 | | | |
| 300 | 12 | 323.9 | | 20 | 6.35 | 4.8 | 4.8 | 4.5 | 4.1 | 4.0 | 3.1 | 2.6 |
| | | | | 30 | 8.38 | 6.4 | 6.4 | 6.0 | 5.4 | 5.2 | 4.1 | 3.4 |
| | | | STD | | 9.53 | 7.2 | 7.2 | 6.9 | 6.2 | 6.0 | 4.7 | 3.9 |
| | | | | 40 | 10.31 | 7.9 | 7.9 | 7.4 | 6.7 | 6.5 | 5.1 | 4.2 |
| | | | XS | | 12.7 | 9.7 | 9.7 | 9.2 | 8.3 | 8.0 | 6.3 | 5.3 |
| | | | | 60 | 14.27 | 11.0 | 11.0 | 10.4 | 9.3 | 9.0 | 7.1 | 5.9 |
| | | | | 80 | 17.48 | 13.5 | 13.5 | 12.8 | 11.5 | 11.2 | 8.8 | 7.3 |
| | | | XXS | 120 | 25.4 | 20.0 | 20.0 | 18.9 | 17.0 | 16.5 | 13.0 | 10.8 |
| | 140 | 28.58 | 22.7 | 22.7 | 21.4 | 19.3 | 18.7 | 14.8 | 12.3 | | | |
| | 160 | 33.32 | 26.8 | 26.8 | 25.3 | 22.7 | 22.1 | 17.4 | 14.4 | | | |
| 350 | 14 | 355.6 | | 10 | 6.35 | 4.4 | 4.4 | 4.1 | 3.7 | 3.6 | 2.8 | 2.4 |
| | | | | 20 | 7.92 | 5.5 | 5.5 | 5.2 | 4.6 | 4.5 | 3.5 | 2.9 |
| | | | STD | 30 | 9.53 | 6.6 | 6.6 | 6.2 | 5.6 | 5.4 | 4.3 | 3.6 |
| | | | | 40 | 11.13 | 7.7 | 7.7 | 7.3 | 6.6 | 6.4 | 5.0 | 4.2 |
| | | | XS | | 12.7 | 8.8 | 8.8 | 8.4 | 7.5 | 7.3 | 5.7 | 4.8 |
| | | | | 60 | 15.09 | 10.6 | 10.6 | 10.0 | 9.0 | 8.7 | 6.9 | 5.7 |
| | | | | 80 | 19.05 | 13.4 | 13.4 | 12.7 | 11.4 | 11.1 | 8.7 | 7.3 |
| | | | | 100 | 23.83 | 17.0 | 17.0 | 16.0 | 14.4 | 14.0 | 11.0 | 9.2 |
| | 120 | 27.79 | 20.0 | 20.0 | 18.9 | 17.0 | 16.5 | 13.0 | 10.8 | | | |
| | 140 | 31.75 | 23.0 | 23.0 | 21.7 | 19.5 | 19.0 | 14.9 | 12.4 | | | |
| | 160 | 35.71 | 26.1 | 26.1 | 24.6 | 22.2 | 21.5 | 16.9 | 14.1 | | | |
| 400 | 16 | 406.4 | | 10 | 6.35 | 3.8 | 3.8 | 3.6 | 3.2 | 3.1 | 2.5 | 2.1 |
| | | | | 20 | 7.92 | 4.8 | 4.8 | 4.5 | 4.1 | 3.9 | 3.1 | 2.6 |
| | | | STD | 30 | 9.53 | 5.8 | 5.8 | 5.4 | 4.9 | 4.7 | 3.7 | 3.1 |
| | | | XS | 40 | 12.7 | 7.7 | 7.7 | 7.3 | 6.6 | 6.4 | 5.0 | 4.2 |
| | | | | 60 | 16.66 | 10.2 | 10.2 | 9.6 | 8.7 | 8.4 | 6.6 | 5.5 |
| | | | | 80 | 21.44 | 13.2 | 13.2 | 12.5 | 11.2 | 10.9 | 8.6 | 7.1 |
| | | | | 100 | 26.19 | 16.3 | 16.3 | 15.4 | 13.8 | 13.4 | 10.6 | 8.8 |
| | | | | 120 | 30.96 | 19.4 | 19.4 | 18.4 | 16.5 | 16.0 | 12.6 | 10.5 |
| | 140 | 36.53 | 23.1 | 23.1 | 21.9 | 19.7 | 19.1 | 15.0 | 12.5 | | | |
| | 160 | 40.49 | 25.8 | 25.8 | 24.4 | 22.0 | 21.3 | 16.8 | 14.0 | | | |

SECTION 7

PIPE

CARBON STEEL GRADE B PIPES - ASTM A53M, A106M, API 5L, SEAMLESS

Maximum Allowable Operating Pressure (MPa)

| "Nominal Size" | | Outside Diameter (mm) | Schedule | Wall Thickness (mm) | Temperature (°C) | | | | | | | |
|----------------|-------|-----------------------|----------|---------------------|--------------------------------|-------|-------|-------|-------|------|------|------|
| | | | | | -29 to +38 | 204 | 260 | 343 | 371 | 399 | 427 | |
| (DN) | (NPS) | | | | Maximum Allowable Stress (MPa) | | | | | | | |
| | | | | | 137.9 | 137.9 | 130.3 | 117.2 | 113.8 | 89.6 | 74.5 | |
| 450 | 18 | 457 | | 10 | 6.35 | 3.4 | 3.4 | 3.2 | 2.9 | 2.8 | 2.2 | 1.8 |
| | | | | 20 | 7.92 | 4.2 | 4.2 | 4.0 | 3.6 | 3.5 | 2.8 | 2.3 |
| | | | STD | | 9.53 | 5.1 | 5.1 | 4.8 | 4.3 | 4.2 | 3.3 | 2.8 |
| | | | XS | 30 | 11.13 | 6.0 | 6.0 | 5.7 | 5.1 | 4.9 | 3.9 | 3.2 |
| | | | | | 12.7 | 6.8 | 6.8 | 6.5 | 5.8 | 5.6 | 4.4 | 3.7 |
| | | | | 40 | 14.27 | 7.7 | 7.7 | 7.3 | 6.5 | 6.4 | 5.0 | 4.2 |
| | | | | 60 | 19.05 | 10.4 | 10.4 | 9.8 | 8.8 | 8.5 | 6.7 | 5.6 |
| | | | | 80 | 23.83 | 13.1 | 13.1 | 12.3 | 11.1 | 10.8 | 8.5 | 7.1 |
| | | | | 100 | 29.36 | 16.2 | 16.2 | 15.3 | 13.8 | 13.4 | 10.6 | 8.8 |
| | | | | 120 | 34.93 | 19.5 | 19.5 | 18.4 | 16.6 | 16.1 | 12.7 | 10.5 |
| | | | | 140 | 39.67 | 22.3 | 22.3 | 21.1 | 19.0 | 18.4 | 14.5 | 12.0 |
| | 160 | 45.24 | 25.7 | 25.7 | 24.3 | 21.8 | 21.2 | 16.7 | 13.9 | | | |
| 500 | 20 | 508 | | 10 | 6.35 | 3.0 | 3.0 | 2.9 | 2.6 | 2.5 | 2.0 | 1.6 |
| | | | STD | 20 | 9.53 | 4.6 | 4.6 | 4.3 | 3.9 | 3.8 | 3.0 | 2.5 |
| | | | XS | 30 | 12.7 | 6.1 | 6.1 | 5.8 | 5.2 | 5.1 | 4.0 | 3.3 |
| | | | | 40 | 15.09 | 7.3 | 7.3 | 6.9 | 6.2 | 6.0 | 4.8 | 4.0 |
| | | | | 60 | 20.62 | 10.1 | 10.1 | 9.5 | 8.6 | 8.3 | 6.6 | 5.4 |
| | | | | 80 | 26.19 | 12.9 | 12.9 | 12.2 | 11.0 | 10.6 | 8.4 | 7.0 |
| | | | | 100 | 32.54 | 16.2 | 16.2 | 15.3 | 13.8 | 13.4 | 10.5 | 8.7 |
| | | | | 120 | 38.1 | 19.1 | 19.1 | 18.1 | 16.2 | 15.8 | 12.4 | 10.3 |
| | | | | 140 | 44.45 | 22.5 | 22.5 | 21.3 | 19.1 | 18.6 | 14.6 | 12.1 |
| | 160 | 50.01 | 25.5 | 25.5 | 24.1 | 21.7 | 21.0 | 16.6 | 13.8 | | | |
| 600 | 24 | 610 | | 10 | 6.35 | 2.5 | 2.5 | 2.4 | 2.2 | 2.1 | 1.6 | 1.4 |
| | | | STD | 20 | 9.53 | 3.8 | 3.8 | 3.6 | 3.2 | 3.1 | 2.5 | 2.1 |
| | | | XS | | 12.7 | 5.1 | 5.1 | 4.8 | 4.3 | 4.2 | 3.3 | 2.8 |
| | | | | 30 | 14.27 | 5.7 | 5.7 | 5.4 | 4.9 | 4.7 | 3.7 | 3.1 |
| | | | | 40 | 17.48 | 7.1 | 7.1 | 6.7 | 6.0 | 5.8 | 4.6 | 3.8 |
| | | | | 60 | 24.61 | 10.0 | 10.0 | 9.5 | 8.5 | 8.3 | 6.5 | 5.4 |
| | | | | 80 | 30.96 | 12.7 | 12.7 | 12.0 | 10.8 | 10.5 | 8.3 | 6.9 |
| | | | | 100 | 38.89 | 16.1 | 16.1 | 15.2 | 13.7 | 13.3 | 10.5 | 8.7 |
| | | | | 120 | 46.02 | 19.2 | 19.2 | 18.2 | 16.3 | 15.9 | 12.5 | 10.4 |
| | | | | 140 | 52.37 | 22.0 | 22.0 | 20.8 | 18.7 | 18.2 | 14.3 | 11.9 |
| | 160 | 59.54 | 25.3 | 25.3 | 23.9 | 21.5 | 20.9 | 16.4 | 13.7 | | | |

SECTION 10

Code Description Size

CARBON STEEL GRADE B PIPES - ASTM A53M, A106M, API 5L, SEAMLESS

Maximum Allowable Operating Pressure (MPa)

NOTES

- This data is intended to provide a general guide. It must not be relied upon in the absence of competent professional advice.
- These allowable internal pipe pressures were calculated by the formula given in ASME B31.3-2002 "Process Piping", clause 304.1.2. Other design codes may give different allowable pressures. The original specifications must be consulted for full details.
- Pipe with Wall Thickness greater than one-sixth of Outside Diameter is not included in this table. For pressure design of this heavy wall pipe consult the Standard.
- Calculations are for Grade B seamless pipe to specifications ASTM A53M, ASTM A106M or API5L. A weld joint efficiency factor (typically 85%) must be allowed for standard ERW pipe, and allowance made for corrosion or wear loss if appropriate.
- Conversion of carbides to graphite may occur after prolonged exposure of carbon steel pipe to temperatures above 427°C.