

# PIPE & TUBE



Delta INC

▶ Pipe

▶ Square

▶ Tube

▶ Rectangular

▶ Tube Mechanical

▶ Tube

Tube for Boiler & Heat-exchanger

Sanitary Tube



Delta INC

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## STAINLESS STEEL AND CARBON STEEL PIPES

### Stainless Steel Pipe and Carbon Steel Pipe

#### ASTM A312, A778, A53, A106, API 5L

| Nominal Pipe Size Inch | Outside Diameter |        | Wall thickness: mm |         |        |        |        |               |        |        |        |         |        |         |         |         |         |         |       |
|------------------------|------------------|--------|--------------------|---------|--------|--------|--------|---------------|--------|--------|--------|---------|--------|---------|---------|---------|---------|---------|-------|
|                        | in               | mm     | SCH 5S             | SCH 10S | SCH 10 | SCH 20 | SCH 30 | SCH 40S / STD | SCH 40 | SCH 60 | SCH XS | SCH 80S | SCH 80 | SCH 100 | SCH 120 | SCH 140 | SCH 160 | SCH XXS |       |
| 1/8                    | 0.405            | 10.29  |                    | 1.24    | 1.24   |        |        | 1.73          | 1.73   | 2.20   | 2.41   | 2.41    | 2.41   |         |         |         | 3.15    | 4.83    |       |
| 1/4                    | 0.540            | 13.72  |                    | 1.65    | 1.65   |        | 1.85   | 2.24          | 2.24   | 2.40   | 3.02   | 3.02    | 3.02   |         |         |         | 3.68    | 6.05    |       |
| 3/8                    | 0.675            | 17.15  |                    | 1.65    | 1.65   |        | 1.85   | 2.31          | 2.31   | 2.80   | 3.2    | 3.20    | 3.20   |         |         |         | 4.01    | 6.40    |       |
| 1/2                    | 0.840            | 21.34  | 1.65               | 2.11    | 2.11   |        | 2.41   | 2.77          | 2.77   | 3.20   | 3.73   | 3.73    | 3.73   |         |         |         | 4.78    | 7.47    |       |
| 3/4                    | 1.050            | 26.67  | 1.65               | 2.11    | 2.11   |        | 2.41   | 2.87          | 2.87   | 3.40   | 3.91   | 3.91    | 3.91   |         |         |         | 5.56    | 7.82    |       |
| 1                      | 1.315            | 33.40  | 1.65               | 2.77    | 2.77   |        | 2.90   | 3.38          | 3.38   | 3.90   | 4.55   | 4.55    | 4.55   |         |         |         | 6.35    | 9.09    |       |
| 1 1/4                  | 1.660            | 42.16  | 1.65               | 2.77    | 2.77   |        | 2.97   | 3.56          | 3.56   | 4.50   | 4.85   | 4.85    | 4.85   |         |         |         | 6.35    | 9.7     |       |
| 1 1/2                  | 1.900            | 48.26  | 1.65               | 2.77    | 2.77   |        | 3.18   | 3.68          | 3.68   | 4.50   | 5.08   | 5.08    | 5.08   |         |         |         | 7.14    | 10.15   |       |
| 2                      | 2.375            | 60.33  | 1.65               | 2.77    | 2.77   |        | 3.18   | 3.91          | 3.91   | 4.90   | 5.54   | 5.54    | 5.54   |         |         |         | 8.74    | 11.07   |       |
| 2 1/2                  | 2.875            | 73.03  | 2.11               | 3.05    | 3.05   |        | 4.78   | 5.16          | 5.16   | 6.00   | 7.01   | 7.01    | 7.01   |         |         |         | 9.53    | 14.02   |       |
| 3                      | 3.500            | 88.90  | 2.11               | 3.05    | 3.05   |        | 4.78   | 5.49          | 5.49   | 6.60   | 7.62   | 7.62    | 7.62   |         |         |         | 11.13   | 15.24   |       |
| 3 1/2                  | 4.000            | 101.60 | 2.11               | 3.05    | 3.05   |        | 4.78   | 5.74          | 5.74   | 7.00   | 8.08   | 8.08    | 8.08   |         |         |         | -       | -       |       |
| 4                      | 4.500            | 114.30 | 2.11               | 3.05    | 3.05   |        | 4.78   | 6.02          | 6.02   | 7.10   | 8.56   | 8.56    | 8.56   |         | 11.13   |         | 13.49   | 17.12   |       |
| 5                      | 5.563            | 141.30 | 2.77               | 3.40    | 3.40   |        |        | 6.55          | 6.55   | 8.10   | 9.53   | 9.53    | 9.53   |         | 12.7    |         | 15.88   | 19.05   |       |
| 6                      | 6.625            | 168.28 | 2.77               | 3.40    | 3.40   |        |        | 7.11          | 7.11   | 9.30   | 10.97  | 10.97   | 10.97  |         | 14.27   |         | 18.26   | 21.95   |       |
| 8                      | 8.625            | 219.08 | 2.77               | 3.76    | 3.76   | 6.35   | 7.04   | 8.18          | 8.18   | 10.31  | 12.7   | 12.7    | 12.7   | 15.09   | 18.26   | 20.62   | 23.01   | 22.23   |       |
| 10                     | 10.750           | 273.05 | 3.40               | 4.19    | 4.19   | 6.35   | 7.80   | 9.27          | 9.27   | 12.7   | 12.7   | 12.7    | 12.7   | 15.09   | 18.26   | 21.44   | 25.4    | 28.58   | 25.40 |
| 12                     | 12.750           | 323.85 | 3.96               | 4.57    | 4.57   | 6.35   | 8.38   | 9.53          | 10.31  | 14.27  | 12.7   | 12.7    | 12.7   | 17.48   | 21.44   | 25.4    | 28.58   | 33.32   | 25.40 |

Delta INC

**Large Diameter Stainless Steel Pipe and Carbon Steel Pipe**  
**ASTM A312, A358, A53, A106, API 5L**

| Nominal Pipe Size Inch | Outside Diameter |         | Wall thickness: mm |         |        |        |        |         |        |        |        |        |         |         |         |         |         |
|------------------------|------------------|---------|--------------------|---------|--------|--------|--------|---------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
|                        | in               | mm      | SCH 5S             | SCH 10S | SCH 10 | SCH 20 | SCH 30 | SCH STD | SCH 40 | SCH 60 | SCH XS | SCH 80 | SCH 100 | SCH 120 | SCH 140 | SCH 160 | SCH XXS |
| 14                     | 14.000           | 355.60  | 3.96               | 4.78    | 6.35   | 7.92   | 9.53   | 9.53    | 11.13  | 15.09  | 12.7   | 19.05  | 23.83   | 27.79   | 31.75   | 35.71   | 35.71   |
| 16                     | 16.000           | 406.40  | 4.19               | 4.78    | 6.35   | 7.92   | 9.53   | 9.53    | 12.7   | 16.66  | 12.7   | 21.44  | 26.19   | 30.96   | 36.53   | 40.49   | 40.49   |
| 18                     | 18.000           | 457.20  | 4.19               | 7.78    | 6.35   | 7.92   | 11.13  | 9.53    | 14.27  | 19.05  | 12.7   | 23.88  | 29.36   | 34.93   | 39.67   | 45.24   | 45.24   |
| 20                     | 20.000           | 508.00  | 4.78               | 5.54    | 6.35   | 9.53   | 12.7   | 9.53    | 15.09  | 20.62  | 12.7   | 26.19  | 32.54   | 38.1    | 44.45   | 50.01   | 50.01   |
| 22                     | 22.000           | 558.80  | 4.78               | 5.54    | 6.35   | 9.53   | 12.7   | 9.53    | -      | 22.23  | 12.7   | 28.58  | 34.93   | 41.28   | 47.63   | 53.98   | 53.97   |
| 24                     | 24.000           | 609.60  | 5.54               | 6.35    | 6.35   | 9.53   | 14.27  | 9.53    | 17.48  | 24.61  | 12.7   | 30.96  | 38.89   | 46.02   | 52.37   | 59.54   | 59.54   |
| 26                     | 26.000           | 660.00  |                    |         | 7.92   | 12.7   | -      | 9.53    | -      |        | 12.7   |        |         |         |         |         |         |
| 28                     | 28.000           | 711.20  |                    |         | 7.92   | 12.7   | 15.88  | 9.53    | -      |        | 12.7   |        |         |         |         |         |         |
| 30                     | 30.000           | 762.00  | 6.35               | 7.92    | 7.92   | 12.7   | 15.88  | 9.53    | -      |        | 12.7   |        |         |         |         |         |         |
| 32                     | 32.000           | 812.80  |                    |         | 7.92   | 12.7   | 15.88  | 9.53    | 17.48  |        | 12.7   |        |         |         |         |         |         |
| 34                     | 34.000           | 863.60  |                    |         | 7.92   | 12.7   | 15.88  | 9.53    | 17.48  |        | 12.7   |        |         |         |         |         |         |
| 36                     | 36.000           | 914.40  |                    |         | 7.92   | 12.7   | 15.88  | 9.53    | 19.05  |        | 12.7   |        |         |         |         |         |         |
| 38                     | 38.000           | 965.20  |                    |         |        |        |        | 9.53    |        |        | 12.7   |        |         |         |         |         |         |
| 40                     | 40.000           | 1016.00 |                    |         |        |        |        | 9.53    |        |        | 12.7   |        |         |         |         |         |         |
| 42                     | 42.000           | 1066.80 |                    |         |        |        |        | 9.53    |        |        | 12.7   |        |         |         |         |         |         |
| 44                     | 44.000           | 1117.60 |                    |         |        |        |        | 9.53    |        |        | 12.7   |        |         |         |         |         |         |
| 46                     | 46.000           | 1168.40 |                    |         |        |        |        | 9.53    |        |        | 12.7   |        |         |         |         |         |         |
| 48                     | 48.000           | 1219.20 |                    |         |        |        |        | 9.53    |        |        | 12.7   |        |         |         |         |         |         |
| 52                     | 52.000           | 1321.00 |                    |         |        |        |        | 9.53    |        |        | 12.7   |        |         |         |         |         |         |
| 56                     | 56.000           | 1422.00 |                    |         |        |        |        | 9.53    |        |        | 12.7   |        |         |         |         |         |         |
| 60                     | 60.000           | 1524.00 |                    |         |        |        |        | 9.53    |        |        | 12.7   |        |         |         |         |         |         |
| 72                     | 72.000           | 1829.00 |                    |         |        |        |        | 9.53    |        |        | 12.7   |        |         |         |         |         |         |

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## STAINLESS STEEL TUBES

### Stainless Steel Square

#### Tube ASTM A554, CNS 5802

| Outside Diameter<br>mm | Thickness<br>mm | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.5 | 2.0 | 3.0 |
|------------------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                        | 12.7x12.7       |     |     |     |     |     |     |     |     |
| 15.9x15.9              |                 |     |     |     |     |     |     |     |     |
| 18.0x18.0              |                 |     |     |     |     |     |     |     |     |
| 19.0x19.0              |                 |     |     |     |     |     |     |     |     |
| 20.0x20.0              |                 |     |     |     |     |     |     |     |     |
| 25.0x25.0              |                 |     |     |     |     |     |     |     |     |
| 30.0x30.0              |                 |     |     |     |     |     |     |     |     |
| 31.8x31.8              |                 |     |     |     |     |     |     |     |     |
| 38.1x38.1              |                 |     |     |     |     |     |     |     |     |
| 40.0x40.0              |                 |     |     |     |     |     |     |     |     |
| 50.8x50.8              |                 |     |     |     |     |     |     |     |     |
| 60.0x60.0              |                 |     |     |     |     |     |     |     |     |
| 70.0x70.0              |                 |     |     |     |     |     |     |     |     |
| 80.0x80.0              |                 |     |     |     |     |     |     |     |     |
| 90.0x90.0              |                 |     |     |     |     |     |     |     |     |
| 100.0x100.0            |                 |     |     |     |     |     |     |     |     |

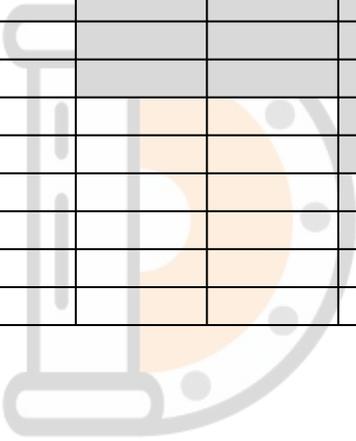
### Stainless Steel Rectangular

#### Tube ASTM A554, CNS 5802

| Outside Diameter<br>mm | Thickness<br>mm | 0.9 | 1.0 | 1.2 | 1.5 | 2.0 | 3.0 |
|------------------------|-----------------|-----|-----|-----|-----|-----|-----|
|                        | 10x20           |     |     |     |     |     |     |
| 13x26                  |                 |     |     |     |     |     |     |
| 15x30                  |                 |     |     |     |     |     |     |
| 20x40                  |                 |     |     |     |     |     |     |
| 25x50                  |                 |     |     |     |     |     |     |
| 25.4x38.1              |                 |     |     |     |     |     |     |
| 30x60                  |                 |     |     |     |     |     |     |
| 40x80                  |                 |     |     |     |     |     |     |
| 45x95                  |                 |     |     |     |     |     |     |
| 50x100                 |                 |     |     |     |     |     |     |

**Stainless Steel Mechanical  
Tube ASTM A554, CNS 5802**

| Outside Diameter<br>mm | Thickness<br>mm | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.5 | 2.0 | 3.0 |
|------------------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                        | 12.7            |     |     |     |     |     |     |     |     |
| 15.9                   |                 |     |     |     |     |     |     |     |     |
| 19.0                   |                 |     |     |     |     |     |     |     |     |
| 22.2                   |                 |     |     |     |     |     |     |     |     |
| 25.4                   |                 |     |     |     |     |     |     |     |     |
| 28.6                   |                 |     |     |     |     |     |     |     |     |
| 31.8                   |                 |     |     |     |     |     |     |     |     |
| 38.1                   |                 |     |     |     |     |     |     |     |     |
| 50.8                   |                 |     |     |     |     |     |     |     |     |
| 63.5                   |                 |     |     |     |     |     |     |     |     |
| 76.2                   |                 |     |     |     |     |     |     |     |     |
| 88.9                   |                 |     |     |     |     |     |     |     |     |
| 101.6                  |                 |     |     |     |     |     |     |     |     |
| 114.3                  |                 |     |     |     |     |     |     |     |     |


  
Delta INC

**Stainless Steel Tube for Boiler & Heat-exchanger**

**ASTM A249, A269, JIS G3463, CNS 7383**

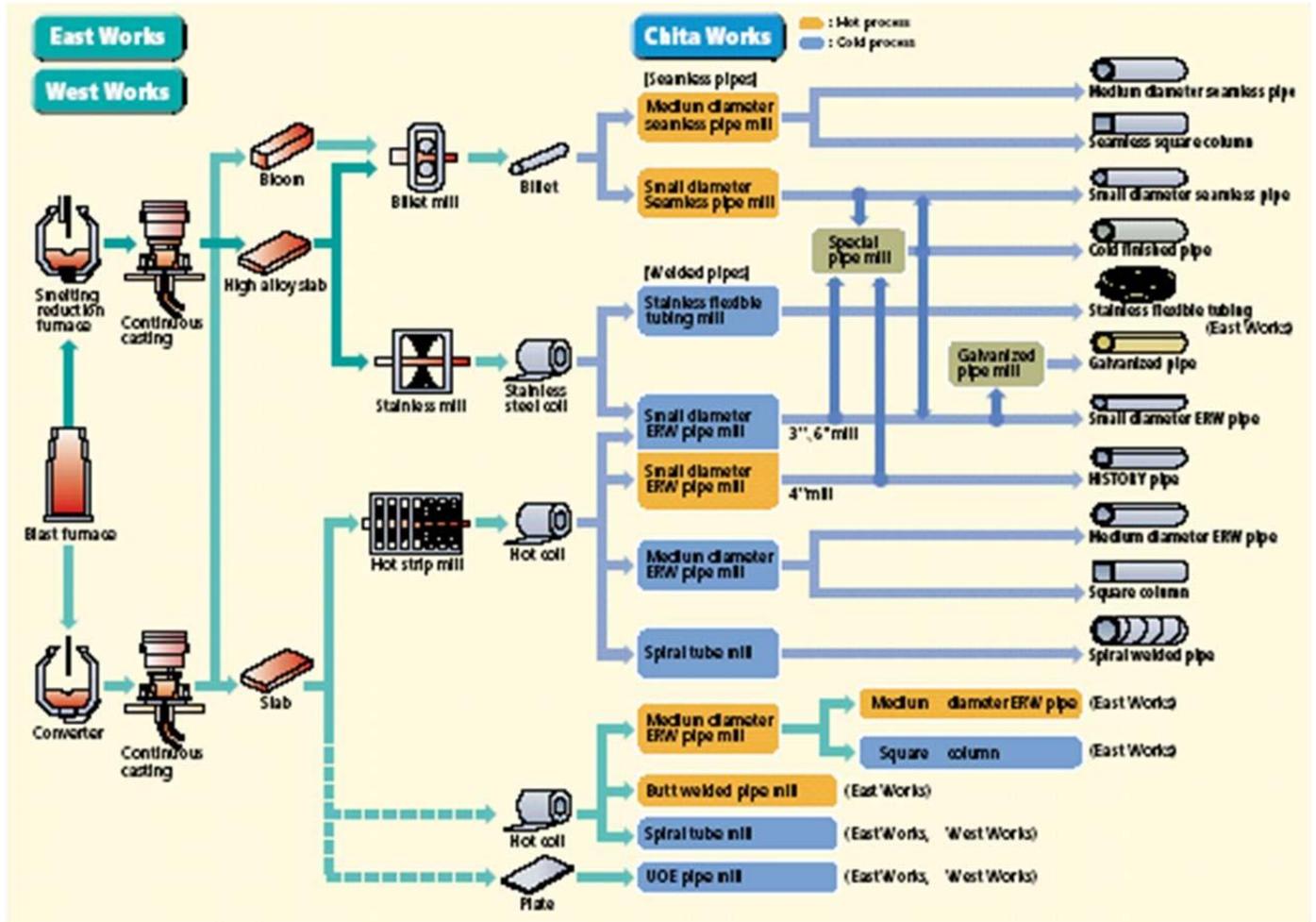
| Outside Diameter<br>mm | Thickness<br>mm | 1.6 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 4.0 | 3.5 | 5.0 |
|------------------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                        | 21.7            |     |     |     |     |     |     |     |     |     |     |
| 25.4                   |                 |     |     |     |     |     |     |     |     |     |     |
| 27.2                   |                 |     |     |     |     |     |     |     |     |     |     |
| 31.8                   |                 |     |     |     |     |     |     |     |     |     |     |
| 34.0                   |                 |     |     |     |     |     |     |     |     |     |     |
| 38.1                   |                 |     |     |     |     |     |     |     |     |     |     |
| 42.7                   |                 |     |     |     |     |     |     |     |     |     |     |
| 48.6                   |                 |     |     |     |     |     |     |     |     |     |     |
| 50.8                   |                 |     |     |     |     |     |     |     |     |     |     |
| 60.3                   |                 |     |     |     |     |     |     |     |     |     |     |
| 63.5                   |                 |     |     |     |     |     |     |     |     |     |     |
| 76.2                   |                 |     |     |     |     |     |     |     |     |     |     |
| 88.9                   |                 |     |     |     |     |     |     |     |     |     |     |
| 101.6                  |                 |     |     |     |     |     |     |     |     |     |     |
| 114.3                  |                 |     |     |     |     |     |     |     |     |     |     |
| 139.8                  |                 |     |     |     |     |     |     |     |     |     |     |

**Stainless Steel Sanitary**

**Tube ASTM A270**

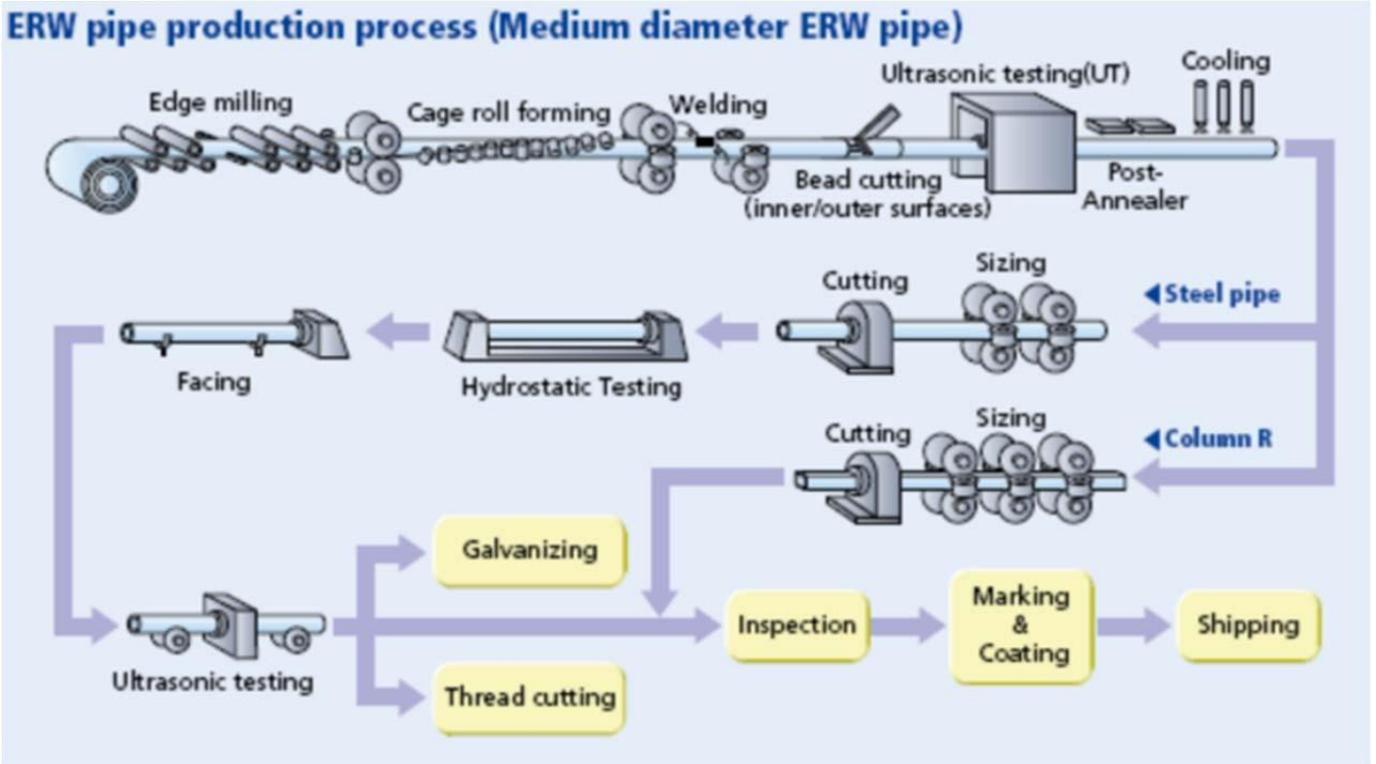
| Outside Diameter<br>mm | Thickness<br>mm | 1.0 | 1.2 | 1.25 | 1.5 | 1.6 | 1.65 | 2.0 | 2.1 |
|------------------------|-----------------|-----|-----|------|-----|-----|------|-----|-----|
|                        | 12.7            |     |     |      |     |     |      |     |     |
| 19.05                  |                 |     |     |      |     |     |      |     |     |
| 25.0                   |                 |     |     |      |     |     |      |     |     |
| 25.4                   |                 |     |     |      |     |     |      |     |     |
| 32.0                   |                 |     |     |      |     |     |      |     |     |
| 38.0                   |                 |     |     |      |     |     |      |     |     |
| 38.1                   |                 |     |     |      |     |     |      |     |     |
| 40.0                   |                 |     |     |      |     |     |      |     |     |
| 50.8                   |                 |     |     |      |     |     |      |     |     |
| 51.0                   |                 |     |     |      |     |     |      |     |     |
| 52.0                   |                 |     |     |      |     |     |      |     |     |
| 63.5                   |                 |     |     |      |     |     |      |     |     |
| 70.0                   |                 |     |     |      |     |     |      |     |     |
| 76.2                   |                 |     |     |      |     |     |      |     |     |
| 101.6                  |                 |     |     |      |     |     |      |     |     |
| 104.0                  |                 |     |     |      |     |     |      |     |     |

### MANUFACTURING PROCESS



### ELECTRIC RESISTANCE WELD PIPE (ERW)

Cold finished pipe made by a series of operations in which the flat rolled material is cold shaped into tubular form and welded at the seam by the application of pressure and heat. The heat is generated at the seam by the resistance to the flow of electric current applied through electrical contacts or an induction coil.



### SEAMLESS PIPE

Hot finished pipe made from a reheated billet which is forged into a bottle shape, elongated and subsequently stretched over a mandrel bar by pushing through a series of roller dies. After reheating,

