



# TELESCOPING PIPE

**NOTE:**

Hot dipped galvanized CHS are not precision tubs and all dimensions shown in this chart, although in accordance with the specifications, may vary marginally. Internal weld bead height may need to be considered when a closer fit is required.

**HOW TO USE THIS CHART:**

1. Select the size of the female (or outside) CHS closest to you needs from the left hand column.
2. Depending on the application select the clearance required between the two members. Members may need to slide freely inside each other, or be locked with a pin, spot weld or fixed with wedges. This means in some cases a 'sloppy' fit may be suitable while for others the tightest fit may be appropriate.
3. Having selected the most suitable clearance for your application take the size of the male (inner) selection from column three.
4. Where two telescoping sections are being used, thickness should be similar and will be determined by normal structural requirements. If a third section is to be used, consideration of both clearance and thickness within the size list available may be required.
5. CHS may need to be fixed against twisting by welding or bolting.
6. Press fit. For short pieces with no need for separation or sliding an interference fit can be achieved using the availability ductility of the steel.

Sizes with a clearance less than 2.0mm are shown in bold in the charts. For tight fits, it is recommended that some form of testing is carried out prior to committing material. While telescoping over some length is desired, additional allowance may be needed for straightness.

| NOMINAL BORE SIZE (NB) | FEMALE OUTER (MM)  | O.D. X T (MM X MM) | MALE INNER NB | CLEAR (MM) |
|------------------------|--------------------|--------------------|---------------|------------|
| 10                     | MEDIUM             | 17.2 X 2.3         | n/a           | n/a        |
|                        | HEAVY              | 17.2 X 2.9         | n/a           | n/a        |
| 15                     | LIGHT              | 21.3 X 2.0         | n/a           | n/a        |
|                        | <b>MEDIUM</b>      | <b>21.3 X 2.6</b>  | <b>8</b>      | <b>1.6</b> |
|                        | <b>HEAVY</b>       | <b>21.3 X 3.2</b>  | <b>8</b>      | <b>0.4</b> |
| 20                     | <b>EXTRA LIGHT</b> | <b>26.9 X 2.0</b>  | <b>15</b>     | <b>0.4</b> |
|                        | LIGHT              | 26.9 X 2.3         | 10            | 4.1        |
|                        | MEDIUM             | 26.9 X 2.6         | 10            | 3.5        |
|                        | HEAVY              | 26.9 X 3.2         | 10            | 2.2        |
| 25                     | <b>EXTRA LIGHT</b> | <b>33.7 X 2.0</b>  | <b>20</b>     | <b>1.6</b> |
|                        | <b>LIGHT</b>       | <b>33.7 X 2.6</b>  | <b>20</b>     | <b>0.4</b> |
|                        | MEDIUM             | 33.7 X 3.2         | 15            | 4.8        |
|                        | HEAVY              | 33.7 X 4.0         | 15            | 3.2        |
| 32                     | EXTRA LIGHT        | 42.4 X 2.0         | 25            | 3.5        |
|                        | LIGHT              | 42.4 X 2.6         | 25            | 2.3        |
|                        | <b>MEDIUM</b>      | <b>42.4 X 3.2</b>  | <b>25</b>     | <b>1.1</b> |
|                        | HEAVY              | 42.4 X 4.0         | 20            | 6.3        |



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|              |                    |                    |             |             |
|--------------|--------------------|--------------------|-------------|-------------|
| 40           | <b>EXTRA LIGHT</b> | <b>48.3 X 2.3</b>  | <b>32</b>   | <b>0.1</b>  |
|              | LIGHT              | 48.3 X 2.9         | 25          | 7.6         |
|              | MEDIUM             | 48.3 X 3.2         | 25          | 7.0         |
|              | HEAVY              | 48.3 X 4.0         | 25          | 5.4         |
|              | SCAFFOLD           | 48.3 X 4.9         | 25          | 2.4         |
|              | EXTRA HAVY         | 48.3 X 5.4         | n/a         | n/a         |
| 50           | EXTRA LIGHT        | 60.3 X 2.3         | 40          | 6.4         |
|              | LIGHT              | 60.3 X 2.9         | 40          | 5.2         |
|              | MEDIUM             | 60.3 X 3.6         | 40          | 3.8         |
|              | <b>HEAVY</b>       | <b>60.3 X 4.0</b>  | <b>40</b>   | <b>2.0</b>  |
|              | <b>EXTRA HEAVY</b> | <b>60.3 X 5.4</b>  | <b>40</b>   | <b>0.2</b>  |
| 65           | EXTRA LIGHT        | 76.1 X 2.3         | 50          | 9.8         |
|              | LIGHT              | 76.1 X 3.2         | 50          | 8.0         |
|              | MEDIUM             | 76.1 X 3.6         | 50          | 7.2         |
|              | HEAVY              | 76.1 X 4.5         | 50          | 5.4         |
|              | EXTRA HEAVY        | 76.1 X 5.9         | 50          | 2.6         |
|              | 80                 | EXTRA LIGHT        | 88.9 X 2.6  | 65          |
| LIGHT        |                    | 88.9 X 3.2         | 65          | 4.8         |
| MEDIUM       |                    | 88.9 x 4.0         | 65          | 3.2         |
| <b>HEAVY</b> |                    | <b>88.9 x 4.9</b>  | <b>65</b>   | <b>1.2</b>  |
| EXTRA HEAVY  |                    | 88.9 x 5.9         | 50          | 15.3        |
| 90           |                    | EXTRA LIGHT        | 101.6 x 2.6 | 80          |
|              | LIGHT              | 101.6 x 3.2        | 80          | 4.4         |
|              | MEDIUM             | 101.6 x 4.0        | 80          | 2.8         |
|              | <b>HEAVY</b>       | <b>101.6 x 5.0</b> | <b>80</b>   | <b>0.8</b>  |
|              | EXTRA HEAVY        | 101.6 x 5.9        | 80          | 15.3        |
| 100          | EXTRA LIGHT        | 114.3 x 3.2        | 90          | 4.1         |
|              | LIGHT              | 114.3 x 3.6        | 90          | 3.3         |
|              | MEDIUM             | 114.3 x 4.5        | 90          | 1.5         |
|              | HEAVY              | 114.3 x 5.4        | 80          | 12.6        |
|              | EXTRA HEAVY        | 114.3 x 5.9        | 80          | 12.6        |
| 125          | EXTRA LIGHT        | 139.7 x 3.0        | 100         | 16.9        |
|              | LIGHT              | 139.7 x 3.5        | 100         | 15.9        |
|              | <b>MEDIUM</b>      | <b>139.7 x 5.0</b> | <b>100</b>  | <b>12.9</b> |
|              | HEAVY              | 139.7 x 5.4        | 100         | 12.1        |
|              | EXTRA HEAVY        | 139.7 x 5.9        | 100         | 12.1        |
| 150          | EXTRA LIGHT        | 165.1 x 3.0        | 125         | 16.4        |
|              | LIGHT              | 165.1 x 3.5        | 125         | 15.4        |
|              | MEDIUM             | 165.1 x 5.0        | 125         | 12.4        |
|              | HEAVY              | 165.1 x 5.4        | 125         | 11.6        |
|              | EXTRA HEAVY        | 165.1 x 5.9        | 125         | 11.6        |