# Original and XL Groove Dimensions for Rubber Lining for Abrasive Services 

Rubber or Urethane Lined Pipe
Rubber or urethane lined pipe, connected with Victaulic couplings, has proven to be a most practical and economical method of conveying abrasive fluids and slurries, showing savings in maintenance cost over unlined metal pipe in such services. The use of rubberlined metal pipe combines abrasive-resistant properties of rubber or urethane with the rigidity and strength of metal.

Provided in this publication are cut groove dimensions for abrasion resistant rubber or urethane lined pipe. Standard "Off the Shelf" Victaulic ductile iron fittings can be directly rubber lined without special machining. Request publication 26.16 for specifications.

Victaulic offers a line of 1 ½D and 3D XL fittings that provide an additional $11 / 4$ thickness of rubber lining. Request publication 07.07 for details.
Lined pipe and fittings are available with Victaulic grooved ends from leading industry lining applicators with different types of lining material for handling a wide range of abrasive materials. The type of lining selected for a particular application is determined by the conditions under which the system will operate.

## Job/Owner

| System No. |  |
| :--- | :--- |
| Location |  |

Contractor

| Submitted By |  |
| :--- | :--- |
| Date |  |

## Engineer

| Spec Section |  |
| :--- | :--- |
| Paragraph |  |
| Approved |  |
| Date |  |

Groove Specifications | Original and XL | Publication 25.03
Dimensions:


For Abrasion Resistance Only

| 1 |  | 2 |  |  |  |  |  |  |  | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nominal Size inches mm | Pipe <br> Outside Diameter <br> inches <br> mm |  |  | Dimensions - Inches/millimeters |  |  |  |  |  |  |  |
|  |  |  |  | Gasket Seat A |  | Groove Width B |  | Groove Dia. C |  | H | Min. Allow. Wall Thick. T |
|  | Basic | Tolerance |  | Basic | $\begin{gathered} \text { Tol. } \\ +.000 \\ (+0.00) \end{gathered}$ | Basic | $\begin{gathered} \text { Tol. } \\ +.000 \\ (+0.00) \end{gathered}$ | Basic | $\begin{gathered} \text { Tol. } \\ +.000 \\ (+0.00) \end{gathered}$ | $\begin{aligned} & +0.000 \\ & -0.030 \end{aligned}$ |  |
| $\begin{gathered} 2 \\ 50 \end{gathered}$ | $\begin{gathered} 2.375 \\ 60.3 \end{gathered}$ | $\begin{gathered} +0.024 \\ +0.61 \end{gathered}$ | $\begin{gathered} \hline-0.024 \\ -0.61 \end{gathered}$ | $\begin{aligned} & 0.562 \\ & 14.27 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.312 \\ & 7.92 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 2.250 \\ & 57.15 \end{aligned}$ | $\begin{gathered} -0.015 \\ -0.38 \end{gathered}$ | $\begin{aligned} & 0.437 \\ & 11.10 \end{aligned}$ | $\begin{gathered} 0.154 \\ 3.91 \end{gathered}$ |
| $\begin{aligned} & 21 / 2 \\ & 65 \end{aligned}$ | $\begin{aligned} & 2.875 \\ & 73.0 \end{aligned}$ | $\begin{gathered} +0.029 \\ +0.74 \end{gathered}$ | $\begin{gathered} -0.029 \\ -0.74 \end{gathered}$ | $\begin{aligned} & 0.562 \\ & 14.27 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{gathered} 0.312 \\ 7.92 \end{gathered}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 2.720 \\ & 69.09 \end{aligned}$ | $\begin{gathered} -0.018 \\ -0,46 \end{gathered}$ | $\begin{aligned} & 0.437 \\ & 11.10 \end{aligned}$ | $\begin{gathered} 0.188 \\ 4.78 \end{gathered}$ |
| 3 O.D. | $\begin{gathered} 3.000 \\ 76.1 \end{gathered}$ | $\begin{gathered} +0.030 \\ +0.76 \end{gathered}$ | $\begin{aligned} & -0.030 \\ & -0.76 \end{aligned}$ | $\begin{aligned} & 0.562 \\ & 14.27 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{gathered} 0.312 \\ 7.92 \end{gathered}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 2.845 \\ & 72.26 \end{aligned}$ | $\begin{gathered} -0.018 \\ -0.46 \end{gathered}$ | $\begin{aligned} & 0.437 \\ & 11.10 \end{aligned}$ | $\begin{gathered} 0.188 \\ 4.78 \end{gathered}$ |
| $\begin{gathered} 3 \\ 80 \end{gathered}$ | $\begin{gathered} 3.500 \\ 88.9 \end{gathered}$ | $\begin{gathered} +0.035 \\ +0.89 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 0.562 \\ & 14.27 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.312 \\ & 7.92 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 3.344 \\ & 84.94 \end{aligned}$ | $\begin{gathered} -0.018 \\ -0.46 \end{gathered}$ | $\begin{aligned} & 0.437 \\ & 11.10 \end{aligned}$ | $\begin{gathered} 0.188 \\ 4.78 \end{gathered}$ |
| $\begin{aligned} & 31 / 2 \\ & 90 \end{aligned}$ | $\begin{aligned} & 4.000 \\ & 101.6 \end{aligned}$ | $\begin{gathered} +0.040 \\ +1.02 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 0.562 \\ & 14.27 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.312 \\ & 7.92 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 3.834 \\ & 97.38 \end{aligned}$ | $\begin{gathered} -0.020 \\ -0.51 \end{gathered}$ | $\begin{aligned} & 0.437 \\ & 11.10 \end{aligned}$ | $\begin{gathered} 0.188 \\ 4.78 \end{gathered}$ |
| $\begin{gathered} 4 \\ 100 \end{gathered}$ | $\begin{aligned} & 4.500 \\ & 114.3 \end{aligned}$ | $\begin{gathered} +0.045 \\ +1.14 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 0.562 \\ & 14.27 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{gathered} 0.344 \\ 8.73 \end{gathered}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{gathered} 4.334 \\ 110.08 \end{gathered}$ | $\begin{gathered} -0.020 \\ -0.51 \end{gathered}$ | $\begin{aligned} & 0.437 \\ & 11.10 \end{aligned}$ | $\begin{gathered} 0.203 \\ 5.16 \end{gathered}$ |
| $\begin{gathered} 5 \\ 125 \end{gathered}$ | $\begin{aligned} & 5.563 \\ & 141.3 \end{aligned}$ | $\begin{gathered} +0.056 \\ +1.42 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \\ \hline \end{gathered}$ | $\begin{aligned} & 0.562 \\ & 14.27 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{gathered} 0.344 \\ 8.73 \end{gathered}$ | $\begin{gathered} -0.030 \\ -0.76 \\ \hline \end{gathered}$ | $\begin{gathered} 5.395 \\ 137.03 \end{gathered}$ | $\begin{gathered} -0.022 \\ -0.56 \end{gathered}$ | $\begin{aligned} & 0.437 \\ & 11.10 \\ & \hline \end{aligned}$ | $\begin{gathered} 0.203 \\ 5.16 \end{gathered}$ |
| 61/2. O.D. | $\begin{aligned} & 6.500 \\ & 165.1 \end{aligned}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 0.562 \\ & 14.27 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{gathered} 0.344 \\ 8.73 \end{gathered}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{gathered} 6.330 \\ 160.78 \end{gathered}$ | $\begin{gathered} -0.022 \\ -0.56 \end{gathered}$ | $\begin{aligned} & 0.437 \\ & 11.10 \end{aligned}$ | $\begin{gathered} 0.219 \\ 5.56 \end{gathered}$ |
| $\begin{gathered} 6 \\ 150 \end{gathered}$ | $\begin{aligned} & 6.625 \\ & 168.3 \end{aligned}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 0.562 \\ & 14.27 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{gathered} 0.344 \\ 8.73 \end{gathered}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{gathered} 6.455 \\ 163.96 \end{gathered}$ | $\begin{gathered} -0.022 \\ -0.56 \end{gathered}$ | $\begin{aligned} & 0.437 \\ & 11.10 \end{aligned}$ | $\begin{gathered} 0.219 \\ 5.56 \end{gathered}$ |
| $\begin{gathered} 8 \\ 200 \end{gathered}$ | $\begin{aligned} & 8.625 \\ & 219.1 \end{aligned}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 0.625 \\ & 15.88 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.469 \\ & 11.91 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{gathered} 8.441 \\ 214.40 \end{gathered}$ | $\begin{gathered} -0.025 \\ -0.64 \end{gathered}$ | $\begin{aligned} & 0.500 \\ & 12.70 \end{aligned}$ | $\begin{gathered} 0.238 \\ 6.05 \end{gathered}$ |
| $\begin{gathered} 10 \\ 250 \end{gathered}$ | $\begin{gathered} 10.750 \\ 273.0 \\ \hline \end{gathered}$ | $\begin{gathered} +0.063 \\ +1.60 \\ \hline \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \\ \hline \end{gathered}$ | $\begin{aligned} & 0.625 \\ & 15.88 \\ & \hline \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \\ \hline \end{gathered}$ | $\begin{aligned} & 0.469 \\ & 11.91 \\ & \hline \end{aligned}$ | $\begin{aligned} & -0.030 \\ & -0.76 \\ & \hline \end{aligned}$ | $\begin{array}{r} 10.562 \\ 268.28 \\ \hline \end{array}$ | $\begin{array}{r} -0.027 \\ -0.69 \\ \hline \end{array}$ | $\begin{aligned} & 0.500 \\ & 12.70 \end{aligned}$ | $\begin{gathered} 0.250 \\ 6.35 \\ \hline \end{gathered}$ |
| $\begin{gathered} 12 \\ 300 \end{gathered}$ | $\begin{gathered} 12.750 \\ 323.9 \end{gathered}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 0.625 \\ & 15.88 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.469 \\ & 11.91 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 12.531 \\ & 318.29 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.500 \\ & 12.70 \end{aligned}$ | $\begin{gathered} 0.279 \\ 7.09 \end{gathered}$ |
| $\begin{gathered} 14 \\ 350 \end{gathered}$ | $\begin{gathered} 14.000 \\ 355.6 \end{gathered}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 0.938 \\ & 23.83 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.500 \\ & 12.70 \end{aligned}$ | $-0.030$ | $\begin{aligned} & 13.781 \\ & 350.04 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.813 \\ & 20.65 \end{aligned}$ | $\begin{gathered} 0.281 \\ 7.14 \end{gathered}$ |
| $\begin{gathered} 16 \\ 400 \end{gathered}$ | $\begin{gathered} 16.000 \\ 406.4 \end{gathered}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 0.938 \\ & 23.83 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.500 \\ & 12.70 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 15.781 \\ & 400.84 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.813 \\ & 20.65 \end{aligned}$ | $\begin{aligned} & 0.312 \\ & 7.92 \end{aligned}$ |
| $\begin{gathered} 18 \\ 450 \\ \hline \end{gathered}$ | $\begin{array}{r} 18.000 \\ 457.2 \end{array}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 1.000 \\ & 25.40 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.500 \\ & 12.70 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 17.781 \\ & 451.64 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.875 \\ & 22.23 \end{aligned}$ | $\begin{gathered} 0.312 \\ 7.92 \end{gathered}$ |
| $\begin{gathered} 20 \\ 500 \end{gathered}$ | $\begin{gathered} 20.000 \\ 508.0 \end{gathered}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 1.000 \\ & 25.40 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.500 \\ & 12.70 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 19.781 \\ & 502.44 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.875 \\ & 22.23 \end{aligned}$ | $\begin{gathered} 0.312 \\ 7.92 \end{gathered}$ |
| $\begin{gathered} 22 \\ 550 \end{gathered}$ | $\begin{gathered} 22.000 \\ 559.0 \end{gathered}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 1.000 \\ & 25.40 \end{aligned}$ | $\begin{gathered} -0.060 \\ -1.52 \end{gathered}$ | $\begin{aligned} & 0.500 \\ & 12.70 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 21.656 \\ & 550.06 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.875 \\ & 22.23 \end{aligned}$ | $\begin{gathered} 0.375 \\ 9.53 \end{gathered}$ |
| $\begin{gathered} 24 \\ 600 \end{gathered}$ | $\begin{gathered} 24.000 \\ 610.0 \end{gathered}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{gathered} -0.031 \\ -0.79 \end{gathered}$ | $\begin{aligned} & 1.000 \\ & 25.40 \end{aligned}$ | $\begin{gathered} -0.060 \\ -1.52 \end{gathered}$ | $\begin{aligned} & 0.500 \\ & 12.70 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 23.656 \\ & 600.86 \end{aligned}$ | $\begin{gathered} -0.030 \\ -0.76 \end{gathered}$ | $\begin{aligned} & 0.875 \\ & 22.23 \end{aligned}$ | $\begin{gathered} 0.375 \\ 9.53 \end{gathered}$ |

For XL specs. see page 3.
NOTE: Dimensions apply to steel pipe and Victaulic fittings. *Based on nominal dimensions (without tolerances).
Column 1 - Nominal IPS Pipe Size. Nominal Metric (ISO) Pipe Size.
Column 2 - IPS Outside Diameter. Metric (ISO) Outside Diameter. The outside diameter of cut grooved pipe shall not vary more than the tolerance listed. For IPS pipe, the maximum allowable tolerance from square cut ends is 0.030 " for $2-31 / 2 " ; 0.045^{\prime \prime}$ for $4-6 "$ "; and 0.060 " for sizes 8 " 0.D. and above measured from true square line. For (ISO) metric pipe, the maximum allowable tolerance from square cut ends is $0,76 \mathrm{~mm}$ for sizes $20-80 \mathrm{~mm} ; 1,14 \mathrm{~mm}$ for sizes $100-150 \mathrm{~mm}$; and $1,52 \mathrm{~mm}$ for sizes 200 mm and above, measured from the true square line.
Column 3 - Gasket Seat. The pipe surface shall be free from indentations and projections from the end of the pipe to the groove, to provide a leak-tight seat for the gasket. All loose paint, scale, dirt, chips, grease, and rust must be removed. Rubber lining must be ground flush with pipe O.D. to a smooth finish for proper gasket seating. It continues to be Victaulic's recommendation that pipe be square cut. Beveled pipe may not be used. Gasket seat "A" is measured from the end of the rubber lining.
Column 4 - Groove Width. Bottom of groove to be free of loose dirt, chips, rust and scale that may interfere with proper coupling assembly. Maximum permissible radius at bottom of groove is 0.025 " ( $0,64 \mathrm{~mm}$ ).
Column 5 - Groove Diameter. The groove must be of uniform depth for the entire pipe circumference. Groove must be maintained within the "C" diameter tolerance listed.
Column 6 - Lead edge of groove to end of pipe after machining to allow rubber lining.
NOTE: Where corrosion resistance is needed on rubber lined systems contact Victaulic for assistance.

## Dimensions:

XL fittings for rubber lined pipe


| Nominal Size inches mm | Pipe <br> Outside Diameter inches mm |  |  | Fitting Outside Diameter inches mm | Dimensions - Inches/millimeters |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Gasket Seat A | H |
|  | Basic | Tolerance |  |  | Basic | $\begin{gathered} \text { Basic- Tol } \\ +0.031 \\ (+0.79) \end{gathered}$ | $\begin{aligned} & +0.031 \\ & (+0.79) \end{aligned}$ |
| $\begin{gathered} 3 \\ 80 \end{gathered}$ | $\begin{gathered} 3.500 \\ 88.9 \end{gathered}$ | $\begin{gathered} +0.035 \\ +0.89 \end{gathered}$ | $\begin{aligned} & -0.031 \\ & -0.79 \end{aligned}$ | $\begin{gathered} 4.000 \\ 101.60 \end{gathered}$ | $\begin{aligned} & 0.750 \\ & 19.05 \end{aligned}$ | $\begin{aligned} & 0.625 \\ & 15.88 \end{aligned}$ |
| $\begin{gathered} 4 \\ 100 \end{gathered}$ | $\begin{aligned} & 4.500 \\ & 114.3 \end{aligned}$ | $\begin{gathered} +0.045 \\ +1.14 \end{gathered}$ | $\begin{aligned} & -0.031 \\ & -0.79 \end{aligned}$ | $\begin{gathered} 5.000 \\ 127.00 \end{gathered}$ | $\begin{aligned} & 0.750 \\ & 19.05 \end{aligned}$ | $\begin{aligned} & 0.625 \\ & 15.88 \end{aligned}$ |
| $\begin{gathered} 5 \\ 125 \end{gathered}$ | $\begin{aligned} & 5.563 \\ & 141.3 \end{aligned}$ | $\begin{gathered} +0.056 \\ +1.42 \end{gathered}$ | $\begin{aligned} & -0.031 \\ & -0.79 \end{aligned}$ | $\begin{gathered} 6.063 \\ 154.00 \end{gathered}$ | $\begin{aligned} & 0.750 \\ & 19.05 \end{aligned}$ | $\begin{aligned} & 0.625 \\ & 15.88 \end{aligned}$ |
| $\begin{gathered} 6 \\ 150 \end{gathered}$ | $\begin{aligned} & 6.625 \\ & 168.3 \end{aligned}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{aligned} & -0.031 \\ & -0.79 \end{aligned}$ | $\begin{gathered} 7.125 \\ 180.98 \end{gathered}$ | $\begin{aligned} & 0.750 \\ & 19.05 \end{aligned}$ | $\begin{aligned} & 0.625 \\ & 15.88 \end{aligned}$ |
| $\begin{gathered} 8 \\ 200 \end{gathered}$ | $\begin{aligned} & 8.625 \\ & 219.1 \end{aligned}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{aligned} & -0.031 \\ & -0.79 \end{aligned}$ | $\begin{gathered} 9.125 \\ 231.78 \end{gathered}$ | $\begin{aligned} & 0.875 \\ & 22.23 \end{aligned}$ | $\begin{aligned} & 0.750 \\ & 1905 \end{aligned}$ |
| $\begin{gathered} 10 \\ 250 \end{gathered}$ | $\begin{gathered} 10.750 \\ 273.0 \end{gathered}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{aligned} & -0.031 \\ & -0.79 \end{aligned}$ | $\begin{aligned} & 11.250 \\ & 285.75 \end{aligned}$ | $\begin{aligned} & 0.875 \\ & 22.23 \end{aligned}$ | $\begin{aligned} & 0.750 \\ & 1905 \end{aligned}$ |
| $\begin{gathered} 12 \\ 300 \end{gathered}$ | $\begin{gathered} 12.750 \\ 323.9 \end{gathered}$ | $\begin{gathered} +0.063 \\ +1.60 \end{gathered}$ | $\begin{aligned} & -0.031 \\ & -0.79 \end{aligned}$ | $\begin{aligned} & 13.250 \\ & 336.55 \end{aligned}$ | $\begin{aligned} & 0.875 \\ & 22.23 \end{aligned}$ | $\begin{aligned} & 0.750 \\ & 1905 \end{aligned}$ |

\# Tolerances shown are for fitting-to-fitting connections. For pipe-to-fitting connections use $1 / 2$ the published values.

## Installation

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

Warranty
Refer to the Warranty section of the current Price List or contact Victaulic for details.

## Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

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