

# TopSTOPP™ & ValveSTOPP™ Fittings

ASME B31.3 / B31.8 / CSA Z662 CAT I

Sizes: 1, 1.25, and 2-inches



T.D. Williamson

Bulletin No: 1130.001.04

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Supersedes: 1130.001.03 (10.2024)



■ TopSTOPP Fitting



■ ValveSTOPP Fitting

## Description

TDW's new TopSTOPP™ and ValveSTOPP fittings are used as branching fittings, typically off larger main lines. The fitting body is similar to the 3-WAY™ TOR fitting however the internal parts are much different. These fittings have integral plugs inside the fitting body that can be used to isolate the branch connection of the fitting.

The TopStopp fitting comes with a driver and a key that allows the operator to open or close the branch outlet from the surface of the ground, eliminated the need for excavation.

The ValveStopp fitting has the same internal plug and has the same application but requires the operator to actuate the outlet plug by accessing the top of the completion cap on the fitting.

These fittings are designed for hot tap tie-ins eliminating the need to leave a valve on the connection. Common applications include farm taps, customer service lines, gauge points, regulator sense lines, and fuel gas lines.

Fittings are available in three sizes: 1, 1.25, and 2-inch (DN25, DN32, and DN50).

## Features

These fittings can be used with a T-101 or TD-1XX Drilling Machine.

If tapping a 1- or 1.25-inch fitting a valve-to-fitting adapter, PN 12407604, is necessary and for a 2-inch application, PN 12407601 is used.

Fittings and associated products are shipped rapidly to meet customer needs. Contact your local TDW representative for pricing and availability.

## TopSTOPP Fittings

| Size   |    |             |
|--------|----|-------------|
| Inches | DN | Part Number |
| 1      | 25 | 12392738    |
| 1.25   | 32 | 12392739    |
| 2      | 50 | 12392740    |

## ValveSTOPP Fittings

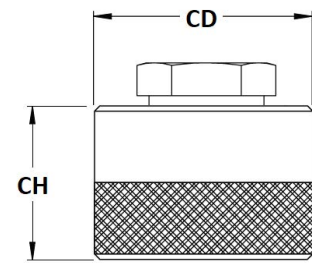
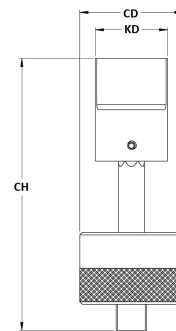
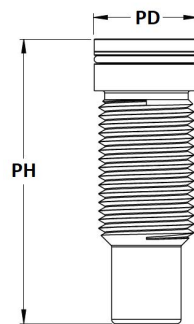
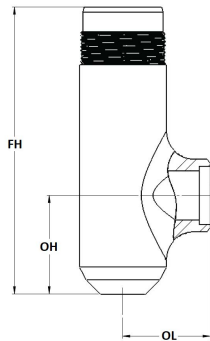
| Size   |    |             |
|--------|----|-------------|
| Inches | DN | Part Number |
| 1      | 25 | 12392735    |
| 1.25   | 32 | 12392736    |
| 2      | 50 | 12392737    |

ValveSTOPP™ Dimensions

|          | Size   |    | CD     |      | CH     |      | KD     |     | PD     |      | PH     |       | FH     |       | OH     |      | OL     |      | A      |       |
|----------|--------|----|--------|------|--------|------|--------|-----|--------|------|--------|-------|--------|-------|--------|------|--------|------|--------|-------|
|          | Inches | DN | Inches | mm   | Inches | mm   | Inches | mm  | Inches | mm   | Inches | mm    | Inches | mm    | Inches | mm   | Inches | mm   | Inches | mm    |
| 12392735 | 1      | 25 | 2.500  | 63.5 | 2.000  | 50.8 | N/A    | N/A | 1.503  | 38.2 | 4.000  | 101.6 | 6.603  | 167.7 | 2.500  | 63.5 | 2.125  | 54.0 | 6.524  | 165.7 |
| 12392736 | 1.25   | 32 | 2.500  | 63.5 | 2.000  | 50.8 | N/A    | N/A | 1.503  | 38.2 | 4.125  | 104.8 | 6.541  | 166.1 | 2.250  | 57.2 | 2.000  | 50.8 | 6.416  | 163.0 |
| 12392737 | 2      | 50 | 3.000  | 76.2 | 2.000  | 50.8 | N/A    | N/A | 1.863  | 47.3 | 4.438  | 112.7 | 7.448  | 189.2 | 2.562  | 65.1 | 2.188  | 55.6 | 7.229  | 183.6 |

TopSTOPP™ Dimensions

|          | Size   |    | CD     |      | CH     |       | KD     |       | PD     |      | PH     |       | FH     |       | OH     |      | OL     |      | A      |       |
|----------|--------|----|--------|------|--------|-------|--------|-------|--------|------|--------|-------|--------|-------|--------|------|--------|------|--------|-------|
|          | Inches | DN | Inches | mm   | Inches | mm    | Inches | mm    | Inches | mm   | Inches | mm    | Inches | mm    | Inches | mm   | Inches | mm   | Inches | mm    |
| 12392738 | 1      | 25 | 2.500  | 63.5 | 6.625  | 168.3 | 1.75   | 44.45 | 1.503  | 38.2 | 4.000  | 101.6 | 6.603  | 167.7 | 2.500  | 63.5 | 2.125  | 54.0 | 6.524  | 165.7 |
| 12392739 | 1.25   | 32 | 2.500  | 63.5 | 6.625  | 168.3 | 1.75   | 44.45 | 1.503  | 38.2 | 4.125  | 104.8 | 6.541  | 166.1 | 2.250  | 57.2 | 2.000  | 50.8 | 6.416  | 163.0 |
| 12392740 | 2      | 50 | 3.000  | 76.2 | 6.625  | 168.3 | 1.75   | 44.45 | 1.863  | 47.3 | 4.438  | 112.7 | 7.448  | 189.2 | 2.562  | 65.1 | 2.188  | 55.6 | 7.229  | 183.6 |



## Spare Parts

| Description                 | Size (inches) | Part Number |
|-----------------------------|---------------|-------------|
| ValveSTOPP Cap Assy         | 1 and 1.25    | 12392602    |
| ValveSTOPP Cap Assy         | 2             | 12392603    |
| TopSTOPP Cap Assy*          | 1 and 1.25    | 12392599    |
| TopSTOPP Cap Assy*          | 2             | 12392600    |
| Plug Assembly               | 1             | 12392576    |
| Plug Assembly               | 1.25          | 12392577    |
| Plug Assembly               | 2             | 12392578    |
| ValveSTOPP Driver Key Assy* |               | 12392819    |
| Set Screw                   |               | 12394386    |

\*includes Driver, Key, and Set Screw



# ValveSTOPP Fittings

| Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi) |                             |                 |         |          |        |          |        |          |        |          |        |                                     |                     |          |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|---------|----------|--------|----------|--------|----------|--------|----------|--------|-------------------------------------|---------------------|----------|
| Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F                                                           |                             |                 |         |          |        |          |        |          |        |          |        | Per ASME B31.3<br>at -20°F to 100°F |                     |          |
| 12392735<br>1in BRANCH CONNECTION                                                                                         | Nominal<br>Pipeline<br>Size | Pipe OD<br>(in) | 0.72 DF | Pressure | 0.6 DF | Pressure | 0.5 DF | Pressure | 0.4 DF | Pressure | 0.2 DF |                                     |                     | Pressure |
|                                                                                                                           | 1.25                        | 1.66            | 0.049   | 1480     | 0.059  | 1480     | 0.071  | 1480     | 0.088  | 1480     | 0.116  | 970                                 | 0.063               | 1480     |
|                                                                                                                           | 1.5                         | 1.9             | 0.056   | 1480     | 0.067  | 1480     | 0.081  | 1480     | 0.101  | 1480     | 0.132  | 970                                 | 0.072               | 1480     |
|                                                                                                                           | 2                           | 2.375           | 0.070   | 1480     | 0.084  | 1480     | 0.101  | 1480     | 0.126  | 1480     | 0.165  | 970                                 | 0.089               | 1480     |
|                                                                                                                           | 2.5                         | 2.875           | 0.085   | 1480     | 0.102  | 1480     | 0.122  | 1480     | 0.152  | 1480     | 0.200  | 970                                 | 0.107               | 1480     |
|                                                                                                                           | 3                           | 3.5             | 0.103   | 1480     | 0.124  | 1480     | 0.148  | 1480     | 0.185  | 1480     | 0.243  | 970                                 | 0.130               | 1480     |
|                                                                                                                           | 3.5                         | 4               | 0.118   | 1480     | 0.141  | 1480     | 0.170  | 1480     | 0.212  | 1480     | 0.278  | 970                                 | 0.148               | 1480     |
|                                                                                                                           | 4                           | 4.5             | 0.133   | 1480     | 0.159  | 1480     | 0.191  | 1480     | 0.238  | 1480     | 0.312  | 970                                 | 0.166               | 1480     |
|                                                                                                                           | >4*                         | *               | *       | 1480     | *      | 1480     | *      | 1480     | *      | 1480     | *      | 970                                 | CONSULT ENGINEERING |          |

| Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi) |                             |                 |         |          |        |          |        |          |        |          |        |                                     |                     |          |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|---------|----------|--------|----------|--------|----------|--------|----------|--------|-------------------------------------|---------------------|----------|
| Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F                                                           |                             |                 |         |          |        |          |        |          |        |          |        | Per ASME B31.3<br>at -20°F to 100°F |                     |          |
| 12392736<br>1.25in BRANCH CONNECTION                                                                                      | Nominal<br>Pipeline<br>Size | Pipe OD<br>(in) | 0.72 DF | Pressure | 0.6 DF | Pressure | 0.5 DF | Pressure | 0.4 DF | Pressure | 0.2 DF |                                     |                     | Pressure |
|                                                                                                                           | 1.5                         | 1.9             | 0.056   | 1480     | 0.067  | 1480     | 0.081  | 1480     | 0.101  | 1480     | 0.132  | 970                                 | 0.072               | 1480     |
|                                                                                                                           | 2                           | 2.375           | 0.070   | 1480     | 0.084  | 1480     | 0.101  | 1480     | 0.126  | 1480     | 0.165  | 970                                 | 0.089               | 1480     |
|                                                                                                                           | 2.5                         | 2.875           | 0.085   | 1480     | 0.102  | 1480     | 0.122  | 1480     | 0.152  | 1480     | 0.200  | 970                                 | 0.107               | 1480     |
|                                                                                                                           | 3                           | 3.5             | 0.103   | 1480     | 0.124  | 1480     | 0.148  | 1480     | 0.185  | 1480     | 0.243  | 970                                 | 0.130               | 1480     |
|                                                                                                                           | 3.5                         | 4               | 0.118   | 1480     | 0.141  | 1480     | 0.170  | 1480     | 0.212  | 1480     | 0.278  | 970                                 | 0.148               | 1480     |
|                                                                                                                           | 4                           | 4.5             | 0.133   | 1480     | 0.159  | 1480     | 0.191  | 1480     | 0.238  | 1480     | 0.312  | 970                                 | 0.166               | 1480     |
|                                                                                                                           | 5                           | 5.563           | 0.164   | 1480     | 0.197  | 1480     | 0.236  | 1480     | 0.295  | 1480     | 0.386  | 970                                 | 0.204               | 1480     |
|                                                                                                                           | >5*                         | *               | *       | 1480     | *      | 1480     | *      | 1480     | *      | 1480     | *      | 970                                 | CONSULT ENGINEERING |          |

| Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi) |                             |                 |         |          |        |          |        |          |        |          |        |                                     |          |      |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|---------|----------|--------|----------|--------|----------|--------|----------|--------|-------------------------------------|----------|------|
| Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F                                                           |                             |                 |         |          |        |          |        |          |        |          |        | Per ASME B31.3<br>at -20°F to 100°F |          |      |
| 12392737<br>2in BRANCH CONNECTION                                                                                         | Nominal<br>Pipeline<br>Size | Pipe OD<br>(in) | 0.72 DF | Pressure | 0.6 DF | Pressure | 0.5 DF | Pressure | 0.4 DF | Pressure | 0.2 DF |                                     | Pressure |      |
|                                                                                                                           | 2.5                         | 2.875           | 0.085   | 1480     | 0.102  | 1480     | 0.122  | 1480     | 0.143  | 1390     | 0.143  | 695                                 | 0.099    | 1480 |
|                                                                                                                           | 3                           | 3.5             | 0.103   | 1480     | 0.124  | 1480     | 0.148  | 1480     | 0.174  | 1390     | 0.174  | 695                                 | 0.120    | 1480 |
|                                                                                                                           | 3.5                         | 4               | 0.118   | 1480     | 0.141  | 1480     | 0.170  | 1480     | 0.199  | 1390     | 0.199  | 695                                 | 0.137    | 1480 |
|                                                                                                                           | 4                           | 4.5             | 0.133   | 1480     | 0.159  | 1480     | 0.191  | 1480     | 0.224  | 1390     | 0.224  | 695                                 | 0.154    | 1480 |
|                                                                                                                           | 5                           | 5.563           | 0.164   | 1480     | 0.197  | 1480     | 0.236  | 1480     | 0.277  | 1390     | 0.277  | 695                                 | 0.190    | 1480 |
|                                                                                                                           | 6                           | 6.625           | 0.195   | 1480     | 0.234  | 1480     | 0.281  | 1480     | 0.329  | 1390     | 0.329  | 695                                 | 0.225    | 1480 |
|                                                                                                                           | 8                           | 8.625           | 0.254   | 1480     | 0.304  | 1480     | 0.365  | 1480     | 0.429  | 1390     | 0.429  | 695                                 | 0.293    | 1480 |
| >8*                                                                                                                       | 8.625*                      | *               | 1480    | *        | 1480   | *        | 1480   | *        | 1390   | *        | 695    | CONSULT ENGINEERING                 |          |      |

The Maximum Working Pressures listed in this Table are valid for the stated pipeline size provided the pipeline minimum yield strength is greater than or equal to 35ksi and the pipeline wall thickness is greater than or equal to the value listed in this Table. Contact TDW Engineering for applications involving pipeline minimum yield strengths less than 35ksi or pipeline wall thicknesses less than those stated above.

\* Exempt from reinforcement calculations per Table 404.3.4-1 of ASME B31.4 or Table 831.4.2-1 of ASME B31.8 or Table 4.6 of CSA Z662.

† Maximum Working Pressure values assume 35ksi minimum yield strength for pipeline (header) material.



| Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi) |                             |                 |         |          |        |          |        |          |        |          |        |                                     |                     |          |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|---------|----------|--------|----------|--------|----------|--------|----------|--------|-------------------------------------|---------------------|----------|
| Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F                                                           |                             |                 |         |          |        |          |        |          |        |          |        | Per ASME B31.3<br>at -20°F to 100°F |                     |          |
| 12392738<br>1in BRANCH CONNECTION                                                                                         | Nominal<br>Pipeline<br>Size | Pipe OD<br>(in) | 0.72 DF | Pressure | 0.6 DF | Pressure | 0.5 DF | Pressure | 0.4 DF | Pressure | 0.2 DF |                                     |                     | Pressure |
|                                                                                                                           | 1.25                        | 1.66            | 0.049   | 1480     | 0.059  | 1480     | 0.071  | 1480     | 0.088  | 1480     | 0.116  | 970                                 | 0.063               | 1480     |
|                                                                                                                           | 1.5                         | 1.9             | 0.056   | 1480     | 0.067  | 1480     | 0.081  | 1480     | 0.101  | 1480     | 0.132  | 970                                 | 0.072               | 1480     |
|                                                                                                                           | 2                           | 2.375           | 0.070   | 1480     | 0.084  | 1480     | 0.101  | 1480     | 0.126  | 1480     | 0.165  | 970                                 | 0.089               | 1480     |
|                                                                                                                           | 2.5                         | 2.875           | 0.085   | 1480     | 0.102  | 1480     | 0.122  | 1480     | 0.152  | 1480     | 0.200  | 970                                 | 0.107               | 1480     |
|                                                                                                                           | 3                           | 3.5             | 0.103   | 1480     | 0.124  | 1480     | 0.148  | 1480     | 0.185  | 1480     | 0.243  | 970                                 | 0.130               | 1480     |
|                                                                                                                           | 3.5                         | 4               | 0.118   | 1480     | 0.141  | 1480     | 0.170  | 1480     | 0.212  | 1480     | 0.278  | 970                                 | 0.148               | 1480     |
|                                                                                                                           | 4                           | 4.5             | 0.133   | 1480     | 0.159  | 1480     | 0.191  | 1480     | 0.238  | 1480     | 0.312  | 970                                 | 0.166               | 1480     |
|                                                                                                                           | >4*                         | *               | *       | 1480     | *      | 1480     | *      | 1480     | *      | 1480     | *      | 970                                 | CONSULT ENGINEERING |          |

| Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi) |                             |                 |         |          |        |          |        |          |        |          |        |                                     |                     |          |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|---------|----------|--------|----------|--------|----------|--------|----------|--------|-------------------------------------|---------------------|----------|
| Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F                                                           |                             |                 |         |          |        |          |        |          |        |          |        | Per ASME B31.3<br>at -20°F to 100°F |                     |          |
| 12392739<br>1.25in BRANCH CONNECTION                                                                                      | Nominal<br>Pipeline<br>Size | Pipe OD<br>(in) | 0.72 DF | Pressure | 0.6 DF | Pressure | 0.5 DF | Pressure | 0.4 DF | Pressure | 0.2 DF |                                     |                     | Pressure |
|                                                                                                                           | 1.5                         | 1.9             | 0.056   | 1480     | 0.067  | 1480     | 0.081  | 1480     | 0.101  | 1480     | 0.132  | 970                                 | 0.072               | 1480     |
|                                                                                                                           | 2                           | 2.375           | 0.070   | 1480     | 0.084  | 1480     | 0.101  | 1480     | 0.126  | 1480     | 0.165  | 970                                 | 0.089               | 1480     |
|                                                                                                                           | 2.5                         | 2.875           | 0.085   | 1480     | 0.102  | 1480     | 0.122  | 1480     | 0.152  | 1480     | 0.200  | 970                                 | 0.107               | 1480     |
|                                                                                                                           | 3                           | 3.5             | 0.103   | 1480     | 0.124  | 1480     | 0.148  | 1480     | 0.185  | 1480     | 0.243  | 970                                 | 0.130               | 1480     |
|                                                                                                                           | 3.5                         | 4               | 0.118   | 1480     | 0.141  | 1480     | 0.170  | 1480     | 0.212  | 1480     | 0.278  | 970                                 | 0.148               | 1480     |
|                                                                                                                           | 4                           | 4.5             | 0.133   | 1480     | 0.159  | 1480     | 0.191  | 1480     | 0.238  | 1480     | 0.312  | 970                                 | 0.166               | 1480     |
|                                                                                                                           | 5                           | 5.563           | 0.164   | 1480     | 0.197  | 1480     | 0.236  | 1480     | 0.295  | 1480     | 0.386  | 970                                 | 0.204               | 1480     |
|                                                                                                                           | >5*                         | *               | *       | 1480     | *      | 1480     | *      | 1480     | *      | 1480     | *      | 970                                 | CONSULT ENGINEERING |          |

| Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi) |                             |                 |         |          |        |          |        |          |        |          |        |          |                                      |      |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|---------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------------------------------------|------|
| Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F                                                           |                             |                 |         |          |        |          |        |          |        |          |        |          | Per ASME B31.3.<br>at -20°F to 100°F |      |
| 12392740<br>2in, BRANCH CONNECTION                                                                                        | Nominal<br>Pipeline<br>Size | Pipe OD<br>(in) | 0.72 DF | Pressure | 0.6 DF | Pressure | 0.5 DF | Pressure | 0.4 DF | Pressure | 0.2 DF | Pressure |                                      |      |
|                                                                                                                           | 2.5                         | 2.875           | 0.085   | 1480     | 0.102  | 1480     | 0.122  | 1480     | 0.143  | 1390     | 0.143  | 695      | 0.099                                | 1480 |
|                                                                                                                           | 3                           | 3.5             | 0.103   | 1480     | 0.124  | 1480     | 0.148  | 1480     | 0.174  | 1390     | 0.174  | 695      | 0.120                                | 1480 |
|                                                                                                                           | 3.5                         | 4               | 0.118   | 1480     | 0.141  | 1480     | 0.170  | 1480     | 0.199  | 1390     | 0.199  | 695      | 0.137                                | 1480 |
|                                                                                                                           | 4                           | 4.5             | 0.133   | 1480     | 0.159  | 1480     | 0.191  | 1480     | 0.224  | 1390     | 0.224  | 695      | 0.154                                | 1480 |
|                                                                                                                           | 5                           | 5.563           | 0.164   | 1480     | 0.197  | 1480     | 0.236  | 1480     | 0.277  | 1390     | 0.277  | 695      | 0.190                                | 1480 |
|                                                                                                                           | 6                           | 6.625           | 0.195   | 1480     | 0.234  | 1480     | 0.281  | 1480     | 0.329  | 1390     | 0.329  | 695      | 0.225                                | 1480 |
|                                                                                                                           | 8                           | 8.625           | 0.254   | 1480     | 0.304  | 1480     | 0.365  | 1480     | 0.429  | 1390     | 0.429  | 695      | 0.293                                | 1480 |
|                                                                                                                           | >8*                         | 8.625*          | *       | 1480     | *      | 1480     | *      | 1480     | *      | 1390     | *      | 695      | CONSULT ENGINEERING                  |      |

The Maximum Working Pressures listed in this Table are valid for the stated pipeline size provided the pipeline minimum yield strength is greater than or equal to 35ksi and the pipeline wall thickness is greater than or equal to the value listed in this Table. Contact TDW Engineering for applications involving pipeline minimum yield strengths less than 35ksi or pipeline wall thicknesses less than those stated above.

\* Exempt from reinforcement calculations per Table 404.3.4-1 of ASME B31.4 or Table 831.4.2-1 of ASME B31.8 or Table 4.6 of CSA Z662.

† Maximum Working Pressure values assume 35ksi minimum yield strength for pipeline (header) material.