# PRESSURE PIPE AND FITTINGS
## DIMENSIONAL CATALOG
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<td>FlowGuard Gold® Limited Warranty</td>
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You can’t beat the system.®

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FlowGuard Gold is a registered trademark of Lubrizol Corporation.
### PVC Schedule 80 Pipe

#### PVC Schedule 80 Pipe, Type 1, Grade 1 - Plain End

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<th>PLAIN END</th>
<th>PVC 1120</th>
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**Note:** Full pallets are polyethylene wrapped for cleanliness and UV protection.

**NSF Listed. Meets All Requirements of ASTM D 1784 and ASTM D 1785.**

---

**WARNING**

Testing with or use of compressed air or gas in PVC / ABS / CPVC pipe or fittings can result in explosive failures and cause severe injury or death.

- NEVER test with or transport/store compressed air or gas in PVC / ABS / CPVC pipe or fittings.
- NEVER test PVC / ABS / CPVC pipe or fittings with compressed air or gas, or air over water boosters.
- ONLY use PVC / ABS / CPVC pipe or fittings for water or approved chemicals.
- Refer to warnings on PPFA’s website and ASTM D 1785.
## PVC Schedule 80 Pipe

### PVC Schedule 80 Pipe, Type 1, Grade 1 - Belled End

<table>
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<tr>
<td>PVC 10010B</td>
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<td>04926</td>
</tr>
<tr>
<td>PVC 10012B</td>
<td>1 1/4” x 20’</td>
<td>04927</td>
</tr>
<tr>
<td>PVC 10015B</td>
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<td>04928</td>
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<td>PVC 10020B</td>
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<td>PVC 10025B</td>
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<td>PVC 10030B</td>
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**Note:** Full pallets are polyethylene wrapped for cleanliness and UV protection.

**NSF Listed.** Meets All Requirements of ASTM D 1784 and ASTM D 1785.

---

**WARNING**

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Schedule 80 and Schedule 40 Tapered Socket Dimensions

PVC SCHEDULE 80 - ASTM D 2467
PVC SCHEDULE 40 - ASTM D 2466

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Schedule 80 and Schedule 40 Socket Diameter</th>
<th>Schedule 80 Socket Length (C Minimum)</th>
<th>Schedule 40 Socket Length (C Minimum)</th>
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<td>Bottom B</td>
<td>Tolerance</td>
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<td>0.836</td>
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<tr>
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<td>1</td>
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<tr>
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<tr>
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<td>±0.015</td>
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American National Standard Taper Pipe Threads (NPT)

ANSI / ASME B1.20.1,
ASTM D 2467, ASTM F 1498

<table>
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<tr>
<th>Nominal Size</th>
<th>Effective Thread Length (L)</th>
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<th>Pitch of Thread (P)</th>
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<td>4</td>
<td>1.3000</td>
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</table>
• S = SOCKET, SPG = SPIGOT, MPT = MALE PIPE THREAD, FPT = FEMALE PIPE THREAD
• ALL DIMENSIONS ARE IN INCHES.

TOLERANCES
S = (SOCKET LENGTH) MINIMUM
G = (LAYING LENGTH) INTERSECTION OF CENTER LINES TO BOTTOM OF SOCKET/THREAD, 90° ELBOWS, TEES, CROSSES, ± 1/32”
H = INTERSECTION OF CENTER LINES TO FACE OF FITTINGS; 90° ELBOWS, TEES, CROSSES, ± 1/32”
J = (LAYING LENGTH) INTERSECTION OF CENTER LINES TO BOTTOM OF SOCKET/THREAD; 45° ELBOWS, ± 1/32”
L = OVERALL LENGTH OF FITTINGS, (INCLUDING CAPS), ± 1/16”
M = OUTSIDE DIAMETER OF SOCKET/THREAD HUB, ± 1/16”
N = SOCKET/THREAD BOTTOM TO SOCKET/THREAD BOTTOM; COUPLINGS, ± 1/16”
• DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Tee
SxSxS
PVC PART NO. 8400

<table>
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<tr>
<th>Size</th>
<th>Universal Part Number</th>
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<th>H</th>
<th>G</th>
<th>Approx Wt. (Lbs.)</th>
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<td>7 13/16</td>
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Schedule 80 Fittings

Reducing Tee

S x S x S

PVC PART NO. 8400
### Schedule 80 Fittings

**Tee**  
*S x S x FPT*

PVC PART NO. 8401

<table>
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<th>Size</th>
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<th>G</th>
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<td>13/16</td>
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**Tee**  
*FPT x FPT x FPT*

PVC PART NO. 8402

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### Schedule 80 Fittings

#### 90 Degree Elbow

**S x S**

**PVC PART NO. 8300**

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#### 90 Degree Elbow

**S x FPT**

**PVC PART NO. 8301**

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### Schedule 80 Fittings

**90 Degree Elbow**  
FPT x FPT  
PVC PART NO. 8302

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**45 Degree Elbow**  
S x S  
PVC PART NO. 8309

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### Schedule 80 Fittings

**45 Degree Elbow**
FPT x FPT

**PVC PART NO. 8312**

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**Wye**
S x S x S

**PVC PART NO. 8600**

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*Maximum pressure rating is 250 psi at 73°F.
## Schedule 80 Fittings

### Wye

**S x S x S**

**PVC PART NO. 8600**

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**Maximum pressure rating is 150 psi at 73°F.**

### Coupling

**S x S**

**PVC PART NO. 8100**

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## Schedule 80 Fittings

### Reducer Coupling

**S x S**

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### Coupling

**FPT x FPT**

**PVC PART NO. 8102**

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## Schedule 80 Fittings

### Female Adapter
\( S \times FPT \)

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\( S \times MPT \)

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### Schedule 80 Fittings

#### Reducer Bushing, Flush Style

**SPG x S**

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### Schedule 80 Fittings

**Reducer Bushing, Flush Style**  
SPG x FPT

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## Schedule 80 Fittings

**Reducer Bushing, Flush Style**

MPT x FPT

PVC PART NO. 8200

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### Schedule 80 Fittings

**Cap**

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### Schedule 80 Fittings

**Plug**

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**Flange, One Piece**

**PVC PART NO. 8500**

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**Notes:**

- BOLT CIRCLE DIAMETERS WERE CALCULATED USING TWO CHARLOTTE FLANGES.
- LENGTHS MAY VARY WHEN MATING WITH OTHER BRANDS OR ACCESSORIES.
- THE MAXIMUM WORKING PRESSURE IS 150 PSI AT 73°F.
### Schedule 80 Fittings

#### Flange, One Piece**

**FPT**

**PVC PART NO. 8560**

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* BOLT LENGTHS WERE CALCULATED USING TWO CHARLOTTE FLANGES. LENGTHS MAY VARY WHEN MATING WITH OTHER BRANDS OR ACCESSORIES.

** THE MAXIMUM WORKING PRESSURE IS 150 PSI AT 73°F.
### Schedule 80 Fittings

**Blind Flange, One Piece**

**PVC PART NO. 8510**

---

*BOLT LENGTHS WERE CALCULATED USING TWO CHARLOTTE FLANGES. LENGTHS MAY VARY WHEN MATING WITH OTHER BRANDS OR ACCESSORIES.***

**THE MAXIMUM WORKING PRESSURE IS 150 PSI AT 73°F.**

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<td>29/32</td>
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### Schedule 80 Fittings

**Van Stone Flange**

**PVC Part No. 8530**

---

**BOLT LENGTHS WERE CALCULATED USING TWO CHARLOTTE FLANGES.**

**LENGTHS MAY VARY WHEN MATING WITH OTHER BRANDS OR ACCESSORIES.**

**THE MAXIMUM WORKING PRESSURE IS 150 PSI AT 73°F.**

---

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<table>
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<th>NO. OF BOLT HOLES</th>
<th>BOLT DIA.</th>
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## Schedule 80 Fittings

### Union, with Viton® O-Ring Seal*

- **PVC PART NO. 8700**

### Union, with EPDM O-Ring Seal*

- **PVC PART NO. 8710**

### Universal Part Number

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* The maximum working pressure is 235 PSI at 73°F.

### Union, with Viton® O-Ring Seal*

- **PVC PART NO. 8800**

### Union, with EPDM O-Ring Seal*

- **PVC PART NO. 8810**

### Universal Part Number

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<th>N</th>
<th>T</th>
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* The maximum working pressure is 235 PSI at 73°F.
** The maximum working pressure is 200 PSI at 73°F.
† The maximum working pressure is 185 PSI at 73°F.
## Schedule 80 Fittings

### Union, with Viton® O-Ring Seal*

**S x FPT**

**PVC PART NO. 8820**

### Union, with EPDM O-Ring Seal*

**S x FPT**

**PVC PART NO. 8830**

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* THE MAXIMUM WORKING PRESSURE IS 235 PSI AT 73°F.
** THE MAXIMUM WORKING PRESSURE IS 200 PSI AT 73°F.

(N) NOTE: AVAILABLE IN PART NO. PVC 8830 ONLY.
# PVC Schedule 40 Pipe

## PVC Schedule 40 Pipe - Plain End

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<th>PLAIN END</th>
<th>PVC 1120</th>
<th>ASTM D 1785</th>
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* Dual Marked ASTM D 1785 & ASTM D 2665.
† Triple Marked ASTM D 1785 & ASTM D 2665 & ASTM F 480.
‡ Dual Marked ASTM D 1785 & ASTM F 480.


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</table>

* Bell dimensions meet either ASTM D 2672 or ASTM F 480, depending upon pipe diameter
** ASTM D 1785
† Dual Marked ASTM D 1785 & ASTM F 480
§ Dual Marked ASTM D 1785 & ASTM D 2665
† Triple Marked ASTM D 1785 & ASTM D 2665 & ASTM F 480

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### PVC Well Casing

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### PVC SDR Pipe

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*PR 315 / SDR 13.5

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<th>PART NO.</th>
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<th>BELL DEPTH (IN.)</th>
<th>WT. PER 100 FT. (LBS.)</th>
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---

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### Schedule 40 Fittings

**Tee**  
SxSxS  
**PVC PART NO. 2400**

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### Schedule 40 Fittings

**Reducing Tee**

S x S x S

**PVC PART NO. 2400**

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H dimension on right side = 1 3/4
### Schedule 40 Fittings

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#### Reducing Tee

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### Schedule 40 Fittings

#### 90 Degree Elbow

**S x S**

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#### Reducing 90 Degree Elbow

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## Schedule 40 Fittings

### 90 Degree Elbow

**S x FPT**

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### Reducing 90 Degree Elbow

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### 90 Degree Elbow

**FPT x FPT**

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### Schedule 40 Fittings

#### 90 Degree Street Elbow

**SPG x S**

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#### 90 Degree Street Elbow

**MPT x S**

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<td>2</td>
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<td>1 17/32</td>
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90 Degree Street Elbow
MPT x FPT
PVC PART NO. 2307

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<tr>
<td>1/2</td>
<td>412-005</td>
<td>1 15/32</td>
<td>23/32</td>
<td>1 1/8</td>
<td>3/8</td>
<td>0.052</td>
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<tr>
<td>3/4</td>
<td>412-007</td>
<td>1 19/32</td>
<td>23/32</td>
<td>1 5/16</td>
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Side Outlet Elbow
S x S x S
PVC PART NO. 2510

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<td>413-007</td>
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<td>1 3/8</td>
<td>9/16</td>
<td>1 3/8</td>
<td>0.090</td>
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<tr>
<td>1</td>
<td>413-010</td>
<td>11/16</td>
<td>19/16</td>
<td>11/16</td>
<td>19/16</td>
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## Side Outlet Elbow

**S x S x FPT**

**PVC PART NO. 2520**

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</thead>
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<td>414-101</td>
<td>1  (\frac{9}{16})</td>
<td>(\frac{9}{16})</td>
<td>1  (\frac{1}{2})</td>
<td>(\frac{3}{4})</td>
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<tr>
<td>3/4 x 3/4 x 3/4</td>
<td>414-007</td>
<td>1  (\frac{9}{16})</td>
<td>(\frac{9}{16})</td>
<td>1  (\frac{15}{32})</td>
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## 45 Degree Elbow

**S x S**

**PVC PART NO. 2309**

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<tbody>
<tr>
<td>1/2</td>
<td>417-005</td>
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<td>1  (\frac{1}{16})</td>
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<td>(\frac{5}{16})</td>
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<td>1 1/2</td>
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<td>(\frac{19}{32})</td>
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<td>417-020</td>
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### Schedule 40 Fittings

#### Cross

**SxSxSxS**

**PVC PART NO. 2410**

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<tbody>
<tr>
<td>1/2</td>
<td>420-005</td>
<td>2(\frac{3}{16})</td>
<td>1(\frac{9}{32})</td>
<td>17/32</td>
<td>0.080</td>
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<tr>
<td>3/4</td>
<td>420-007</td>
<td>3(\frac{5}{16})</td>
<td>1(\frac{21}{32})</td>
<td>21/32</td>
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<tr>
<td>1</td>
<td>420-010</td>
<td>3(\frac{7}{8})</td>
<td>1(\frac{15}{16})</td>
<td>13/16</td>
<td>0.222</td>
</tr>
<tr>
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<td>420-012</td>
<td>4(\frac{1}{2})</td>
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<td>0.372</td>
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<td>420-015</td>
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<td>1(\frac{1}{8})</td>
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#### Coupling

**SxS**

**PVC PART NO. 2100**

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<tbody>
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<tr>
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<td>429-007</td>
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<td>0.038</td>
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<tr>
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<td>429-010</td>
<td>2(\frac{3}{32})</td>
<td>3/32</td>
<td>0.067</td>
</tr>
<tr>
<td>1(\frac{1}{4})</td>
<td>429-012</td>
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<td>429-020</td>
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<tr>
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<td>429-040</td>
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<td>3/16</td>
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<tr>
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### Schedule 40 Fittings

#### Reducing Coupling

**S x S**

**PVC PART NO. 2100**

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<td>429-101</td>
<td>1 7/8</td>
<td>1/8</td>
<td>0.052</td>
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<tr>
<td>1 x 3/4</td>
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<td>2 1/4</td>
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#### Coupling

**FPT x FPT**

**PVC PART NO. 2102**

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<tbody>
<tr>
<td>1/2</td>
<td>430-005</td>
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<tr>
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<td>430-007</td>
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#### Riser Extension

**FPT x MPT**

**PVC PART NO. 2103**

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<td>2 1/16</td>
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### Schedule 40 Fittings

**Female Adapter**

S x FPT

PVC PART NO. 2101

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<tr>
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<td>435-005</td>
<td>1(\frac{27}{32})</td>
<td>(\frac{1}{8})</td>
<td>0.053</td>
</tr>
<tr>
<td>3/4</td>
<td>435-007</td>
<td>2(\frac{3}{32})</td>
<td>(\frac{1}{16})</td>
<td>0.067</td>
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<tr>
<td>1</td>
<td>435-010</td>
<td>2(\frac{3}{32})</td>
<td>(\frac{1}{16})</td>
<td>0.108</td>
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<tr>
<td>1(\frac{1}{4})</td>
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**Reducing Female Adapter**

S x FPT

PVC PART NO. 2104

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<tbody>
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</table>
### Schedule 40 Fittings

#### Reducing Female Adapter

**S x FPT**

**PVC PART NO. 2101**

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</thead>
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<td>435-101</td>
<td>2</td>
<td>1/8</td>
<td>7/8</td>
<td>0.059</td>
</tr>
<tr>
<td>(3/4 \times 1)</td>
<td>435-102</td>
<td>3 1/2</td>
<td>3/32</td>
<td>1 1/8</td>
<td>0.090</td>
</tr>
<tr>
<td>1 (\times 3/4)</td>
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<td>2 3/32</td>
<td>5/32</td>
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#### Male Adapter

**MPT x S**

**PVC PART NO. 2109**

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<td>436-005</td>
<td>1 19/32</td>
<td>5/32</td>
<td>11/16</td>
<td>0.029</td>
</tr>
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<td>5/32</td>
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<tr>
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<td>436-010</td>
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<td>3/16</td>
<td>7/8</td>
<td>0.080</td>
</tr>
<tr>
<td>1 1/4</td>
<td>436-012</td>
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<td>3/16</td>
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<td>0.122</td>
</tr>
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<td>1 1/2</td>
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<td>15/16</td>
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<td>7/32</td>
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# Schedule 40 Fittings

## Reducing Male Adapter

**MPT x S**

**PVC PART NO. 2110**

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<td>7/32</td>
<td>7/8</td>
<td>0.112</td>
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## Schedule 40 Fittings

### Reducer Bushing, Flush Style

**SPG x S**

**PVC PART NO. 2107**

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<td>1/8</td>
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</tr>
<tr>
<td>1 x 1/2</td>
<td>437-130</td>
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<td>15/16</td>
<td>9/32</td>
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<td>1 x 3/4</td>
<td>437-131</td>
<td>1 3/16</td>
<td>15/16</td>
<td>3/16</td>
<td>0.038</td>
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<tr>
<td>1 1/4 x 3/4</td>
<td>437-167</td>
<td>1 1/2</td>
<td>1 1/4</td>
<td>1/2</td>
<td>0.112</td>
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<tr>
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### Schedule 40 Fittings

#### Reducer Bushing, Flush Style
**SPG x FPT**
**PVC PART NO. 2108**

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### Reducer Bushing

MPT x FPT

**PVC PART NO. 2112**

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### Caps

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## Schedule 40 Fittings

### Cap
**FPT)**

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**SPG**

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### Schedule 40 Fittings

#### Plug

**MPT**

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**HVAC Condensate P Trap**

**(D)**

**SPG x SPG**

**PVC PART NO. 2700**

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**HVAC Condensate Running Trap**

**(D)**

**SPG x SPG**

**PVC PART NO. 2701**

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*(D)* Does not conform to ASTM D 2466.

*(c)* Contact sales office for availability.
**FlowGuard Gold® Pipe**

FlowGuard Gold is a registered trademark of The Lubrizol Corporation.

**CPVC Copper Tube Size Pipe**

<table>
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<td>CTS 12007</td>
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<td>CTS 12007</td>
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<td>CTS 12020</td>
<td>2” x 20’</td>
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**NOTE:** STRAIGHT LENGTH PIPE ARE SHIPPED IN FULL BUNDLE QUANTITY ONLY.

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NSF Listed. Meets All Requirements of ASTM D 2846.

---

**WARNING**

Testing with or use of compressed air or gas in PVC / ABS / CPVC pipe or fittings can result in explosive failures and cause severe injury or death.

- NEVER test with or transport/store compressed air or gas in PVC / ABS / CPVC pipe or fittings.
- NEVER test PVC / ABS / CPVC pipe or fittings with compressed air or gas, or air over water boosters.
- ONLY use PVC / ABS / CPVC pipe or fittings for water or approved chemicals.
- Refer to warnings on PPFA’s website and ASTM D 1785.
### Minimum Dimensions from Center to End of Socket (Laying Length) for CPVC 41, SDR 11 Fittings

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<th>Nominal Size (IN.)</th>
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<th>&quot;J&quot; Minimum IN. (mm)</th>
<th>&quot;N&quot; Minimum IN. (mm)</th>
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<tr>
<td>¾</td>
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<td>1</td>
<td>0.633 (16.08)</td>
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<td>0.102 (2.59)</td>
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<tr>
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<td>0.391 (9.93)</td>
<td>0.102 (2.59)</td>
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<td>1.134 (28.83)</td>
<td>0.495 (12.57)</td>
<td>0.102 (2.59)</td>
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### Tapered Socket Dimensions for CPVC 41, SDR 11 Plastic Pipe Fittings

<table>
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<tr>
<th>Nominal Size (IN.)</th>
<th>Socket Entrance Diameter, IN. (mm)</th>
<th>&quot;A&quot; Average</th>
<th>Socket Length, IN. (mm)</th>
<th>&quot;C&quot; Minimum</th>
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<tr>
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<td>¾</td>
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### FlowGuard Gold® CPVC CTS Fittings

#### Coupling

**S x S**

**CTS PART NO. 2100**

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#### Coupling

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**CTS PART NO. 2100**

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(A) Assembled
### Transition Coupling

**IPS S x CTS S**

**CTS PART NO. 2100I**

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### Reducer Bushing

**SPG x S**

**CTS PART NO. 2107**

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### Transition Bushing

**IPS SPG X CTS S**  
**CTS PART NO. 21071**

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**Male Adapter**  
**S x MPT**  
**CTS PART NO. 2109**

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** For cold water applications only. Does not conform to the requirements of ASTM D 2846. **
Reducing Male Adapter
S x MPT
CTS PART NO. 2110**

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Cap CTS PART NO. 2116

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** For cold water applications only. Does not conform to the requirements of ASTM D 2846.
### 90 Degree Elbow
*S x S*
**CTS PART NO. 2300**

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### 90 Degree Elbow, Reducing
*S x S*
**CTS PART NO. 2300**

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**FlowGuard Gold® CPVC CTS Fittings**

### Drop Ear Elbow

All CPVC - S × S

**CTS PART NO. 2300D**

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### 90 Degree Street Elbow

SPG × S

**CTS PART NO. 2304**

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45 Degree Elbow
S x S
CTS PART NO. 2309

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Street Elbow 45 Degree
SPG x S
CTS PART NO. 2310

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## FlowGuard Gold® CPVC CTS Fittings

### Tee

**S x S x S**

**CTS PART NO. 2400**

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## FlowGuard Gold® CPVC CTS Fittings

### Reducer Tee

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**FlowGuard Gold® CPVC CTS Fittings**

**Low-Lead Female Adapter, Brass Threads**
BRASS FPT X CTS HUB
CTS PART NO. 2105 L

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**Low-Lead Male Adapter, Brass Threads**
BRASS MPT X CTS HUB
CTS PART NO. 2115 L

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FlowGuard Gold® CPVC CTS Fittings

Low-Lead Male Adapter, Brass Threads
BRASS MPT X CTS HUB
CTS PART NO. 2216 B

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Low-Lead CPVC/Brass Drop Ear Elbow 90 Degree
BRASS FPT X CPVC HUB
CTS PART NO. 2302L

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Certification

This is to certify that all Plastic Pipe and Fittings manufactured by Charlotte Pipe and Foundry Company are manufactured in the United States and conform to the following standards:

**PVC SCH. 40 SOLID WALL PIPE**
ASTM D 1784, ASTM D 1785, ASTM D 2665
FHA UM 79a
FEDERAL SPECIFICATION L-P-320a
NSF STANDARD NO. 14 AND 61

**PVC SCH. 40 DWV CELLULAR CORE PIPE**
ASTM D 4396, ASTM F 891
NSF STANDARD NO. 14

**PVC SCH. 40 DWV FITTINGS**
ASTM D 1784, ASTM D 2665, ASTM D 3311, ASTM F 1866
FHA UM 79a
FEDERAL SPECIFICATION L-P-320a
NSF STANDARD NO. 14

**PVC SDR-21 AND SDR-26 PRESSURE PIPE**
ASTM D 1784, ASTM D 2241
NSF STANDARD NO. 14 AND 61

**PVC SCH. 40 PRESSURE FITTINGS**
ASTM D 1784, ASTM D 2466
NSF STANDARD NO. 14 AND 61

**PVC SCH. 40 WELL CASING PIPE**
ASTM D 1784, ASTM F 480
NSF STANDARD NO. 14 AND 61

**PVC SCH. 80 PIPE**
ASTM D 1784, ASTM D 1785, PVC 1120
NSF STANDARD NO. 14 AND 61

**PVC SCH. 80 FITTINGS**
ASTM D 1784, ASTM D 2467, ASTM D 2464, ASTM F 1970
NSF STANDARD NO. 14 AND 61
Certification

PVC SDR 35 SEWER MAIN PIPE
ASTM D 1784, ASTM D 3034 SDR 35
ASTM D 3212, ASTM F 477

PVC SEWER AND DRAIN PIPE
ASTM D 1784, ASTM D 2729

PVC THIN WALL PIPE & FITTINGS
ASTM D 1784, ASTM D 2949
NSF STANDARD NO. 14

CPVC FLOWGUARD GOLD® CTS PIPE & FITTINGS
ASTM D 1784, ASTM D 2846
FHA UM-61a
NSF STANDARD NO. 14. AND 61
CSA LISTED ON SPECIFIED ITEMS

CPVC CHEMDRAIN® SCH. 40 PIPE & FITTINGS
ASTM D 1784, ASTM F 2618
NSF STANDARD NO. 14

ABS SCH. 40 DWV CELLULAR CORE PIPE
ASTM D 3965, ASTM F 628
NSF STANDARD NO. 14

ABS PLUS® SCH. 40 DWV CELLULAR CORE PIPE
ASTM D 3965, ASTM D 4396, ASTM F 1488
NSF STANDARD NO. 14.

ABS SCH. 40 DWV FITTINGS
ASTM D 3965, ASTM D 2661, ASTM D 3311
FHA UM 79a
FEDERAL SPECIFICATION L-P-322b
NSF STANDARD NO. 14

MADE IN U.S.A.
LIMITED WARRANTY

Charlotte Pipe and Foundry Company® (Charlotte Pipe®) Products are warranted to be free from manufacturing defects and to conform to currently applicable ASTM standards for a period of five (5) years from date of delivery. Buyer’s remedy for breach of this warranty is limited to replacement of, or credit for, the defective product. This warranty excludes any expense for removal or reinstallment of any defective product and any other incidental, consequential, or punitive damages. This limited warranty is the only warranty made by seller and is expressly in lieu of all other warranties, express and implied, including any warranties of merchantability and fitness for a particular purpose. No statement, conduct or description by Charlotte Pipe or its representative, in addition to or beyond this Limited Warranty, shall constitute a warranty. This Limited Warranty may only be modified in writing signed by an officer of Charlotte Pipe.

This Limited Warranty will not apply if:

1) The Products are used for purposes other than their intended purpose as defined by local plumbing and building codes, and the applicable ASTM standard.

2) The Products are not installed in good and workmanlike manner consistent with normal industry standards; installed in compliance with the latest instructions published by Charlotte Pipe and good plumbing practices; and installed in conformance with all applicable plumbing, fire and building code requirements.

3) This limited warranty does not apply when the products of Charlotte Pipe are used with the products of other manufacturers that do not meet the applicable ASTM or CISPI standards or that are not marked in a manner to indicate the entity that manufactured them.

4) In hubless cast iron installations, this warranty will not apply if products are joined with unshielded hubless couplings. Charlotte Pipe requires that its hubless cast iron pipe and fittings be joined only with shielded hubless couplings manufactured in accordance with CISPI 310, ASTM C 1277 and certified by NSF® International or with Heavy Duty Couplings meeting ASTM C 1540.

5) The Products fail due to defects or deficiencies in design, engineering, or installation of the piping system of which they are a part.

6) The Products have been the subject of modification; misuse; misapplication; improper maintenance or repair; damage caused by the fault or negligence of anyone other than Charlotte Pipe; or any other act or event beyond the control of Charlotte Pipe.

7) The Products fail due to the freezing of water in the Products.

8) The Products fail due to contact with chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents that are not compatible.

9) Pipe outlets, sound attenuation systems or other devices are permanently attached to the surface of Charlotte® PVC, ABS or CPVC products with solvent cement or adhesive glue.

Charlotte Pipe products are manufactured to the applicable ASTM or CISPI standard. Charlotte Pipe and Foundry cannot accept responsibility for the performance, dimensional accuracy, or compatibility of pipe, fittings, gaskets, or couplings not manufactured or sold by Charlotte Pipe and Foundry.

This Limited Warranty will not apply unless written notice of a claim is mailed to Charlotte Pipe at the address below within 30 days of discovery of the allegedly defective product.

Any Charlotte Pipe products alleged to be defective must be made available to Charlotte Pipe at the address below within 30 days of discovery of the allegedly defective product.

Charlotte Pipe and Foundry Company
Attention: Technical Services
2109 Randolph Road
Charlotte, North Carolina 28207

Purchaser must obtain a return materials authorization and instructions for return shipment to Charlotte Pipe of any product claimed defective or shipped in error.

Any Charlotte Pipe product proved to be defective in manufacture will be replaced F.O.B. point of original delivery, or credit will be issued, at the discretion of Charlotte Pipe.

4/20/21
Charlotte Pipe and Foundry Company (Charlotte Pipe®) warrants to the original owner of the structure in which its FlowGuard Gold CTS CPVC Pipe and Fittings (the “Products”) have been installed, that the Products will be free from manufacturing defects and conform to currently applicable ASTM standards under normal use and service for a period of ten (10) years. Buyer’s remedy for breach of this warranty is limited to replacement of, or credit for, the defective product. This warranty excludes any expense for removal or reinstallation of any defective product and any other incidental, consequential, or punitive damages. This limited warranty is the only warranty made by seller and is expressly in lieu of all other warranties, express and implied, including any warranties of merchantability and fitness for a particular purpose.

No statement, conduct or description by Charlotte Pipe or its representative, in addition to or beyond this Limited Warranty, shall constitute a warranty. This Limited Warranty may only be modified in writing signed by an officer of Charlotte Pipe.

This Limited Warranty will not apply if:

1) The Products are used for purposes other than the transmission of domestic water.

2) The Products are not installed in good and workmanlike manner consistent with normal industry standards; installed in compliance with the latest instructions published by Charlotte Pipe and good plumbing practices; and installed in conformance with all applicable plumbing, fire and building code requirements.

3) This limited warranty does not apply when the products of Charlotte Pipe are used with the products of other manufacturers that do not meet the ASTM standard or that are not marked in a manner to indicate the entity that manufactured them.

4) The Products fail due to defects or deficiencies in design, engineering, or installation of the water distribution system of which they are a part.

5) The Products have been the subject of modification; misuse; misapplication; improper maintenance or repair; damage caused by the fault or negligence of anyone other than Charlotte Pipe; or any other act or event beyond the control of Charlotte Pipe.

6) The Products fail due to the freezing of water in the Products.

7) The Products fail due to contact with chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents not compatible with CPVC compounds.

Charlotte Pipe products are manufactured to the applicable ASTM standard. Charlotte Pipe and Foundry cannot accept responsibility for the performance, dimensional accuracy, or compatibility of pipe, fittings, gaskets, or couplings not manufactured or sold by Charlotte Pipe and Foundry.

This Limited Warranty will not apply unless written notice of a claim is mailed to Charlotte Pipe at the address below within 30 days of discovery of the allegedly defective product.

Any Charlotte Pipe products alleged to be defective must be made available to Charlotte Pipe at the following address for verification, inspection and determination of cause:

Charlotte Pipe and Foundry Company
Attention: Technical Services
2109 Randolph Road
Charlotte, North Carolina 28207

Purchaser must obtain a return materials authorization and instructions for return shipment to Charlotte Pipe of any product claimed defective or shipped in error.

Any Charlotte Pipe product proved to be defective in manufacture will be replaced F.O.B. point of original delivery, or credit will be issued, at the discretion of Charlotte Pipe.

Charlotte Pipe is a registered trademark of Charlotte Pipe and Foundry Company.
FlowGuard Gold is a registered trademark of Lubrizol Corporation.

4/20/21