If the type of longitudinal joint cannot be determined, the joint factor to be used must not exceed that designated for “Other.”


§ 192.115 Temperature derating factor (T) for steel pipe.

The temperature derating factor to be used in the design formula in §192.105 is determined as follows:

<table>
<thead>
<tr>
<th>Gas temperature in degrees Fahrenheit (Celsius)</th>
<th>Temperature derating factor (T)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 °F (121 °C) or less</td>
<td>1.000</td>
</tr>
<tr>
<td>300 °F (149 °C)</td>
<td>0.967</td>
</tr>
<tr>
<td>350 °F (177 °C)</td>
<td>0.933</td>
</tr>
<tr>
<td>400 °F (204 °C)</td>
<td>0.900</td>
</tr>
<tr>
<td>450 °F (232 °C)</td>
<td>0.867</td>
</tr>
</tbody>
</table>

For intermediate gas temperatures, the derating factor is determined by interpolation.


§ 192.117 [Reserved]

§ 192.119 [Reserved]

§ 192.121 Design of plastic pipe.

Subject to the limitations of §192.123, the design pressure for plastic pipe is determined by either of the following formulas:

\[
P = 2S \frac{t}{(D - t)} (DF)
\]

\[
P = \frac{2S}{(SDR - 1)} (DF)
\]

Where:

- \( P \) = Design pressure, gauge, psig (kPa).
- \( S \) = For thermoplastic pipe, the HDB is determined in accordance with the listed specification at a temperature equal to 73 °F (23 °C), 100 °F (38 °C), 120 °F (49 °C), or 140 °F (60 °C). In the absence of an HDB established at the specified temperature, the HDB of a higher temperature may be used in determining a design pressure rating at the specified temperature by arithmetic interpolation using the procedure in Part D.2 of PPI TR-3/2008, HDB/PDB/SDB/MRS Policies (incorporated by reference, see §192.7). For reinforced thermosetting plastic pipe, 11,000 psig (75,842 kPa). [Note: Arithmetic interpolation is not allowed for PA–11 pipe.]
- \( t \) = Specified wall thickness, inches (mm).
- \( D \) = Specified outside diameter, inches (mm).