

**NC Department of Insurance  
Office of the State Fire Marshal - Engineering Division  
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**Cast Iron Fittings for Steel or Wrought-iron Gas Piping**

**Code:** 2018 Fuel Gas Code

**Date:** August 20, 2019

**Section:** 403.10.4

**Code:** 2018 Residential Code

**Section:** G2414.10.4

**Question:**

Can cast iron fittings be used for steel or wrought-iron gas piping?

**Answer:**

Yes, within limits.

Item #2 of Section 403.10.4 generically allows cast iron, but Item #5 places limits on the type (style) of fittings and the sizes that cast iron fittings can be used. Please note that 403.10.4 Item 5.2 specifically prohibits cast iron **bushings** of all sizes.

Note: The Residential Gas Code, Section G2414.10.4 has a slightly different numbering order, but it does allow some cast iron fittings, but prohibits bushings, and does not discuss size limitations, as it is unlikely to have 4" or larger gas lines in a one or two-family dwelling.