

the end of the pipe or tubing, shall extend not less than to the outside end of the pipe or tubing and shall extend not less than to the outside end of the compression fitting when installed. The stiffener shall be free of rough or sharp edges and shall not be a forced fit in the plastic. Split tubular stiffeners shall not be used. [NFPA 54:5.6.9(3)]

- (D) Plastic piping joints and fittings for use in liquefied petroleum gas-piping systems shall be in accordance with NFPA 58, *Liquefied Petroleum Gas Code* or equivalent International Standard(s) approved by the Authority Having Jurisdiction. [NFPA 54:5.6.9(4)]

1208.5.10 Flanges. Flanges shall comply with ASME B16.1, *Standard for Cast-Iron Pipe Flanges and Flanged Fittings*; ASME B16.20, *Standard for Ring-Joint Gaskets and Grooves for Steel Pipe Flanges*; or MSS SP-6, *Standard Finishes for Contact Faces of Pipe Flanges and Connecting-End Flanges of Valves and Fittings* or equivalent International Standard(s) approved by the Authority Having Jurisdiction. The pressure-temperature ratings shall equal or exceed that required by the application. [NFPA 54:5.6.10]

- (A) **Flange Facings.** Standard facings shall be permitted for use under this code. Where steel flanges equal to 10bar (150 psi) are bolted to Class 125 cast-iron flanges, the raised face on the steel flange shall be removed. [NFPA 54:5.6.10.1]

- (B) **Lapped Flanges.** Lapped flanges shall be used only above ground or in exposed locations accessible for inspection. [NFPA 54:5.6.10.2]

1208.5.11 Flange Gaskets. The material for gaskets shall be capable of withstanding the design temperature and pressure of the piping system and the chemical constituents of the gas being conducted without change to its chemical and physical properties. The effects of fire exposure to the joint shall be considered in choosing the material. [NFPA 54:5.6.11]

- (1) Acceptable materials include the following [NFPA 54:5.6.11.1]:
- (a) Metal or metal-jacketed asbestos (plain or corrugated).
 - (b) Asbestos.
 - (c) Aluminum "O" rings and spiral-wound metal gaskets.
- (2) When a flanged joint is opened, the gasket shall be replaced. [NFPA 54:5.6.11.2]

- (3) Full-face gaskets shall be used with all bronze and cast-iron flanges. [NFPA 54:5.6.11.3]

1208.6 Gas Meters.

1208.6.1 Capacity. Gas meters shall be selected for the maximum expected pressure and permissible pressure drop. [NFPA 54:5.7.1]

1208.6.2 Location.

- (A) Gas meters shall be located in ventilated spaces readily accessible for examination, reading, replacement, or necessary maintenance. [NFPA 54:5.7.2.1]
- (B) Gas meters shall not be placed where they will be subjected to damage, such as adjacent to a driveway; under a fire escape; in public passages, halls, coal bins; where they will be subject to excessive corrosion or vibration. [NFPA 54:5.7.2.2]
- (C) Gas meters shall not be located where they will be subjected to extreme temperatures or sudden extreme changes in temperature. Meters shall not be located in areas where they are subjected to temperatures beyond those recommended by the manufacturer. [NFPA 54:5.7.2.4]

1208.6.3 Supports. Gas meters shall be supported or connected to rigid piping so as not to exert a strain on the meters. Where flexible connectors are used to connect a gas meter to the downstream piping at mobile homes in mobile home parks, the meter shall be supported by a post or bracket placed in a firm footing or by other means providing equivalent support. [NFPA 54:5.7.3]

1209.6.4 Meter Protection. Meters shall be protected against overpressure, back-pressure, and vacuum where such conditions are anticipated. [NFPA 54:5.7.4]

1208.6.5 Identification. Gas piping at multiple meter installations shall be marked by a metal tag or other permanent means attached by the installing agency, designating the building or the part of the building being supplied. [NFPA 54:5.7.5]

1208.7 Gas Pressure Regulators.

1208.7.1 Where Required. A line gas pressure regulator or gas appliance pressure regulator, as applicable, shall be installed where the gas supply pressure exceeds that at which the branch supply line or gas utilization appliance is designed to operate or varies beyond design pressure limits. [NFPA 54:5.8.1]

1208.7.2 Listing. The line gas pressure regulator shall be listed in accordance with CSA Z21.80 or