



CSI: DIVISION: 23 00 00—HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)
Section: 23 11 00—Facility Fuel Piping

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Products: Viega LLC MegaPressG System: Press-connect metallic fittings and valve for fuel gas distribution systems

Listee: Viega LLC
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Broomfield CO 80021
www.viega.us

Compliance with the following codes:

2021, 2018, 2015, 2012, 2009, and 2006 *International Fuel Gas Code*® (IFGC)
2021, 2018, 2015, 2012, 2009, and 2006 *International Residential Code*® (IRC)
2021, 2018, 2015, 2012, 2009, and 2006 *Uniform Plumbing Code*® (UPC)*
2021, 2018, 2015, 2012, 2009, and 2006 *Uniform Mechanical Code*® (UMC)*
2019 and 2016 *California Plumbing Code* (CPC)
2020 and 2017 *City of Los Angeles Plumbing Code*
ASME B31 Code for Pressure Pipe; standards B31.1-2020, B31.3-2020 and B31.9-2020

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Compliance with the following standards:

ASTM A 53-2020, Standard Specification for Pipe, Steel, Black and Hot Dipped Zinc-coated Welded and Seamless
ASTM A 106-2019a, Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service
ANSI LC 4a-2022/CSA 6.32a-2022, Press-connect Metallic Fittings for Use in Fuel Gas Distribution Systems
NFPA 54-2021, National Fuel Gas Code
NFPA 58-2020, Liquefied Petroleum Gas Code
CSA B149.1-2020, Natural Gas and Propane Code
ASTM F3226-2019, Standard Specification for Metallic Press-Connect Fittings for Piping and Tubing Systems
ANSI/CAN/UL/ULC 180-2019, Standard for Combustible Liquid Tank Accessories, 9th Edition

49CFR192, Subparts B – Materials; F - Joining of Materials other than by welding; I - Requirements for Corrosion Control; and Subpart J - Test Requirements

Identification:

Fittings: The Viega LLC MegaPressG fittings must bear a permanent marking with the following information:

- Manufacturer’s name or trademark (Viega).
- Nominal size corresponding to the tube/pipe size.
- Date of manufacture (date code or batch code).
- Maximum specified operating pressure.
- Color identification: yellow (for fuel gas only).
- Mark of the third-party inspection agency.

Packages of fittings must bear the manufacturer’s name (Viega LLC), product name (MegaPressG), part number and the ICC-ES PMG listing mark.

Installation:

Viega MegaPressG fittings must be installed in accordance with this listing, the applicable code and the manufacturer’s published installation instructions. The manufacturer’s published installation instructions must be furnished to the code official. Installation is subject to approval by the code official having jurisdiction.

The metallic fittings and valves mentioned in this report shall be used for fuel gas systems and are intended for installation above ground, below ground, indoors or outdoors and are suitable for use in concealed locations.

Models:

Fittings:

The MegaPressG system (Size 1/2 to 4 inch) is a steel pipe connection system intended to join Schedule 10, Schedule 40 and Schedule 80 black iron, galvanized, or carbon steel pipe to Viega Fittings. Viega MegaPressG fittings are rated for a maximum operating pressure of 125 pounds per square inch gauge (psig) (862 kPa gauge). Press fittings are made of E235 (ASTM A53 Gr. B) Hot Rolled Steel. The fittings are provided with yellow HNBR Sealing elements (O-rings). The fittings are also provided with a corresponding yellow marking at each end. The connection to the black iron pipe shall be made with a hydraulic or electro-hydraulic press tool. The tools have specific jaws, rings and prep tools for each size.

Viega MegaPressG Press-connect metallic fittings in sizes 1/2"-4" have been found to meet 49CFR192 Subpart B for Materials, Subpart F for Joining of Materials other than by welding, Subpart I for Requirements for Corrosion Control, and Subpart J for Test Requirements. The fittings have been verified to comply with the material criteria, testing requirements, pressure ratings as well as corrosion control and resistance.

DESCRIPTION		SIZE RANGE
ADAPTER	Steel Male Adapters: P x MNPT	1/2" to 4"
	Steel Female Adapters: P x FNPT	1/2" to 4"
CAP	Steel Caps	1/2" to 4"
COUPLING	Steel Couplings with Stop: P x P	1/2" to 4"
	Steel Coupling w/o Stop: P x P	1/2" to 4"
	Steel Coupling Extended w/o Stop: P x P	1/2" to 2"

ELBOW	Steel Elbow 90 degrees: P x P	1/2" to 4"
	Steel Elbow 90 degrees: FTG x P	1/2" to 4"
	Steel Elbow 45 degrees: P x P	1/2" to 4"
	Steel Elbow 45 degrees: FTG x P	1/2" to 4"
REDUCER	Steel Reducer: FTG x P	1/2" to 4"
	Steel Reducer: P x P	1/2" to 4"
TEE	Steel Tee: P x P x P	1/2" to 4"
	Steel Tee: P x P x F NPT	1/2" to 4"
UNION	Steel Union: P x P	1/2" to 2"
	Steel Union: P x F NPT	1/2" to 2"
FLANGE	Steel Flange	1/2" to 4"
Ball Valve	Ball Valve	1/2" to 2"

For **SI**: 1 inch = 25.4 mm.

Conditions of Listing:

1. The metallic fittings and valves mentioned in this report shall be used for fuel gas systems and are intended for installation above ground, below ground, indoors or outdoors and are suitable for use in concealed locations.
2. In accordance with IFGC Section 402.7, the maximum design operating pressure for piping systems located inside buildings must not exceed 5 psig (34 kPa gauge) except where at least one of the following conditions is met:
 - a. The piping system is welded or brazed.
 - b. The piping is joined by fittings listed to ANSI LC-4/CSA6.32 and installed in accordance with the manufacturer's instructions.
 - c. The piping joints are flanged and pipe-to-flange connections are made by welding or brazing.
 - d. The piping is located in a ventilated chase or otherwise enclosed for protection against accidental gas accumulation.
 - e. The piping is located inside buildings or in separate areas of buildings used exclusively for:
 - i. Industrial processing or heating.
 - ii. Research.
 - iii. Warehousing.
 - iv. Boiler or mechanical rooms.
 - f. The piping is a temporary installation for buildings under construction.
 - g. The piping serves appliances or equipment used for agricultural purposes.
 - h. The piping system is an LP-gas piping system with design operating pressure greater than 20 psi (137.9 kPa) and complies with NFPA 58.
3. In accordance with UPC Section 1208.5, the maximum design operating pressure for piping systems located inside buildings must not exceed 5 psig (34 kPa gauge) except where at least one of the following conditions is met:
 - a. The piping system is welded or brazed.
 - b. The piping joints are flanged and pipe-to-flange connections are made by welding or brazing.
 - c. The piping is located in a ventilated chase or otherwise enclosed for protection against accidental gas accumulation.
 - d. The piping is located inside buildings or in separate areas of buildings used exclusively for:
 - i. Industrial processing or heating.
 - ii. Research.
 - iii. Warehousing.
 - iv. Boiler or mechanical rooms.
 - e. The piping is a temporary installation for buildings under construction.

- f. The piping serves appliances or equipment used for agricultural purposes.
 - g. The piping system is an LP-gas piping system with design operating pressure greater than 20 psi (137.9 kPa) and complies with NFPA 58.
4. In accordance with UMC Section 1310.6, the maximum design operating pressure for piping systems located inside buildings must not exceed 5 psig (34 kPa gauge) except where at least one of the following conditions is met:
 - a. The piping system is welded or brazed.
 - b. The piping joints are flanged and pipe-to-flange connections are made by welding or brazing.
 - c. The piping is located in a ventilated chase or otherwise enclosed for protection against accidental gas accumulation.
 - d. The piping is located inside buildings or in separate areas of buildings used exclusively for:
 - i. Industrial processing or heating.
 - ii. Research.
 - iii. Warehousing.
 - iv. Boiler or mechanical rooms.
 - e. The piping is a temporary installation for buildings under construction.
 - f. The piping serves appliances or equipment used for agricultural purposes.
 - g. The piping system is an LP-gas piping system with design operating pressure greater than 20 psi (137.9 kPa) and complies with NFPA 58.
 5. When piping is installed in vertical chases under the IBC, the gas piping exceeding 5 psig (34 kPa) must be installed in accordance with IBC Section 1211.4.
 6. Steel fittings are for use with ASTM A53 or ASTM A106 Schedule 10, Schedule 40 or Schedule 80 Black pipe, Galvanized or Carbon Steel only.
 7. Operating temperature range must be within minus 40°F to plus 180°F (minus 40°C to plus 82.2°C).
 8. The fittings have not been evaluated for use when embedded in a solid material such as concrete.
 9. The fitting installation must be pressure-tested for leaks in the presence of the code official or the official's designated representative in accordance with the applicable code.
 10. The fittings under a quality control program with an annual surveillance inspection by ICC-ES.