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Viega PEX Press Polymer Fittings

with Attached Stainless Steel Press Sleeves for ViegaPEX™ Ultra, ViegaPEX Barrier and FostaPEX® SDR-9 Cross-linked Polyethylene (PEX)

Scope

This product specification designates the requirements for Viega PEX Press Polymer fittings with the Smart Connect feature and attached stainless steel press sleeves with tool locator ring to be used as connections for ViegaPEX Ultra, ViegaPEX Barrier, and FostaPEX tubing in ⅜", ½", ¾", 1", 1¼", 1½" and 2" sizes as available. The connections are to be completed with the aid of a Viega PEX Press Hand Tool or Viega PEX Press Power Tool.

Materials

Viega PEX Press Polymer fittings and manifolds are molded from Radel® R polymer. All Viega PEX Press fittings are precision-made to tight tolerances for a consistent fit with Viega PEX tubing, exhibit excellent resistance to the corrosive effects of water and are well suited for hot water applications. Zero Lead throughout this publication mean products meeting the requirements of NSF 61-G through testing under NSF/ANSI Standard 372 (0.25% or less percent maximum weighted average lead content).

The stainless steel press sleeves incorporate three (3) view holes and are manufactured from 304 stainless steel that will not corrode, maintaining a clean appearance for the lifetime of the system. The tool locator rings are color-coded to match their appropriately sized PEX Press hand tools and are what hold the PEX press sleeve to the fitting, allowing it to be removed and/or replaced in the unlikely event the sleeve is damaged during handling or shipping (replacement sleeves and locator rings available separately).

Marking and Certification

Viega PEX Press Polymer fittings with attached stainless steel sleeves are manufactured and certified to the requirements of ASTM F877. Viega PEX Press Polymer fittings and sleeves are marked with the size, manufacturer's mark and required marking(s) of third-party certification organizations. Fittings also meet the requirements of ANSI/NSF-61 for health effects and are suitable for contact with potable water. NSF International and other certification organizations conduct random on-site inspections of manufacturing facilities and independently test Viega PEX Press Polymer fittings for compliance with physical, performance and toxicological standards.

Recommended Uses

Viega PEX Press Polymer fittings with attached stainless steel press sleeves are intended and recommended for use in potable water distribution systems with ViegaPEX Ultra and FostaPEX tubing, and for hydronic heating, snow melt and cooling systems with ViegaPEX Barrier and FostaPEX tubing meeting the requirements of ASTM F876 and multipurpose residential fire sprinkler systems per NFPA 13D with ViegaPEX Ultra Black (sizes ¾" to 2") meeting the requirements of ASTM F876 and UL 1821 (130 psi @ 120°F). Viega PEX Press Polymer fitting system components are available only from Viega and are not interchangeable with components and tubing from other suppliers. For information on other hot and cold applications not listed here, consult with your Viega representative.

Handling and Installation

Viega PEX Press Polymer fittings are corrosion and impact resistant. However, they are still softer than metals and must be protected from UV exposure and volatile organic compounds (VOC's) which can damage them. Use of these materials in hot and cold water distribution system must be in accordance with good plumbing practices, applicable code requirements, and current installation practices available from Viega. Contact a Viega representative or the applicable code enforcement bureau for information about approvals for specific applications.

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Quality Assurance
When the product is marked with the ASTM F877 designation, it affirms that the product was manufactured, inspected, sampled and tested in accordance with these specifications and has been found to meet the specified requirements.

Certifications
cNSF®us pw
- NSF International Performance and Health Effects (Standards 14 & 61)
- NSF certified to CSA B137.5 (Canadian Standards Association)

NSF Certified to NSF-U.P. Code
- approved for Uniform Plumbing Code, listed to ASTM F876 / F877

- **ICC ES-PMG™ 1038 / 1015** plumbing and heating systems

- UL certified to UL 1821 listing (130 psi @ 120°F) for use in multipurpose residential fire sprinkler systems per NFPA 13D*.

Friction Loss
Viega PEX Press Polymer Fittings
(Equivalent Length of PEX Tubing in Feet)

SIZE	COUPLING	90° ELBOW	TEE RUN	TEE BRANCH
⅜"	4.5	14.3	6.5	14.7
½"	2.6	12.6	3.9	14.0
¾"	2.5	18.9	3.6	19.1
1"	3.1	17.7	3.8	18.4
1¼"	4.0	18.6	6.4	18.7
1½"	5.2	29.4	7.9	28.3
2"	8.9	36.4	10.2	37.5

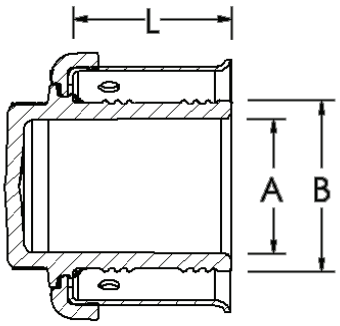
This information is based on tubing nominal flow rate.
(@ 8 fps flow velocity)

Smart Connect Feature
Viega PEX Press Polymer includes the Smart Connect feature providing quick easy identification of unpressed connections during the pressure testing process. Unpressed connections are located by pressurizing the system to 0.5 PSI to 100 PSI. The Smart Connect feature is an integral part of the fitting design assuring leakage of an unpressed connection. Once the fitting is pressed it will create a leak-proof, permanent connection.

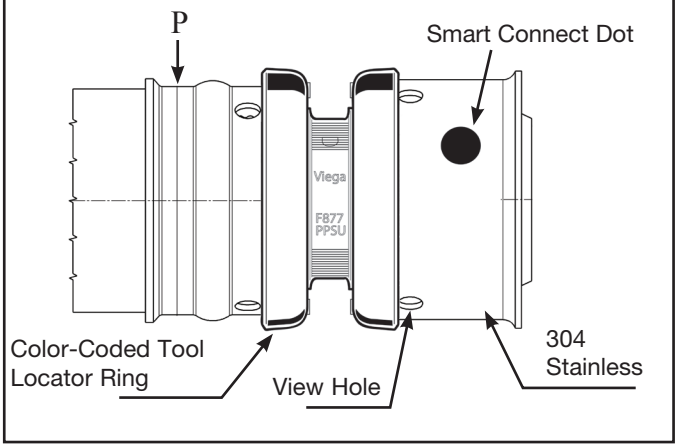
Viega PEX Press Polymer Fittings
Typical Fitting Insert Dimensions

SIZE	A	B	Tolerances	L
⅜"	0.207	0.343	+/-.004	0.595
½"	0.315	0.472	+/-.004	0.595
¾"	0.486	0.661	+/-.004	0.595
1"	0.667	0.855	+/-.004	0.752
1¼"	0.819	1.037	+/-.004	1.097
1½"	0.952	1.226	+/-.004	1.097
2"	1.253	1.582	+/-.004	1.072

NOTE: Dimensions are in English units. Tolerances shown are Viega requirements. Viega PEX Press Polymer fittings are manufactured within these specifications.



Attached Stainless Sleeve, Pressed
A pressed fitting has jaw witness marks (P) indicating the connection has been properly made.



*¾" through 2" fittings only

This document subject to updates. For the most current Viega technical literature please visit www.viega.us.
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Viega LLC, 100 N. Broadway, 6th Floor • Wichita, KS 67202 • Ph: 800-976-9819 • Fax: 316-425-7618