

Tech Data

Viega PureFlow® Press Polymer Fittings



Description

Viega PureFlow Press Polymer fittings with Smart Connect® technology with attached stainless steel press sleeves are for use with Viega PureFlow and Viega Barrier SDR-9 cross-linked polyethylene (PEX) tubing. The tool locator ring

provides connections for Viega PureFlow PEX and PureFlow Barrier PEX tubing in $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", and 2" sizes as available. The connections are completed with the aid of a Viega PureFlow Press Hand Tool or Viega PureFlow Press Power Tool.

Materials

Viega PureFlow Press Polymer fittings and manifolds are molded from polyphenylsulfone. All Viega PureFlow Press fittings are precision-made to tight tolerances for a consistent fit with Viega PureFlow PEX tubing. PureFlow Press fittings exhibit excellent resistance to the corrosive effects of water, and are well suited for hot water applications. Zero Lead throughout this publication mean products that meet 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 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 PureFlow Press hand tools. They are what hold the PureFlow 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).

Recommended Uses

Viega PureFlow Press Polymer fittings with attached stainless steel press sleeves are intended and recommended for use in potable water distribution systems with Viega PureFlow PEX tubing. In addition, they can be used in hydronic heating and snow melt and cooling systems with PureFlow Barrier PEX

tubing meeting the requirements of ASTM F876, and in residential fire sprinkler systems per NFPA 13D with Viega PureFlow PEX Black (sizes $\frac{3}{4}$ " to 2") meeting the requirements of ASTM F876 and UL 1821 (130 psi @ 120°F). Viega PureFlow 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 your Viega representative.

Handling and Installation

Viega PureFlow 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 (VOCs) 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.

Quality Assurance

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



This document is subject to updates. For the most current Viega technical literature please visit www.viega.us.



Viega products are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with Viega products and their installation. **Installation by non-professionals may void Viega LLC's warranty.**

Marking and Certification

Viega PureFlow Press Polymer fittings with attached stainless steel sleeves are manufactured and certified to the requirements of ASTM F877. Viega PureFlow 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 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 PureFlow Press Polymer fittings for compliance with physical, performance, and toxicological standards.

Certifications



- ICC ES-PMG™ 1038 / 1015
 - Plumbing and heating systems
- NSF Certified to NSF-U.P. Code
 - Approved for Uniform Plumbing Code, listed to ASTM F876 / F877
- NSF®PW
 - NSF International Performance and Health Effects (Standards 14 & 61)
 - NSF certified to CSA B137.5 (Canadian Standards Association)
- UL certified to UL 1821 listing (130 psi @ 120°F)
 - For use in residential fire sprinkler systems per NFPA 13D (¾" through 2" fittings only)

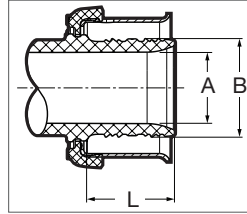


Friction Loss for Viega PureFlow Press Polymer Fittings

Size inches	Coupling	90° Elbow	Tee Run	Tee Branch
Equivalent length of PEX tubing in feet				
¾	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).

Typical Fitting Insert Dimensions for Viega PureFlow Press Polymer Fittings

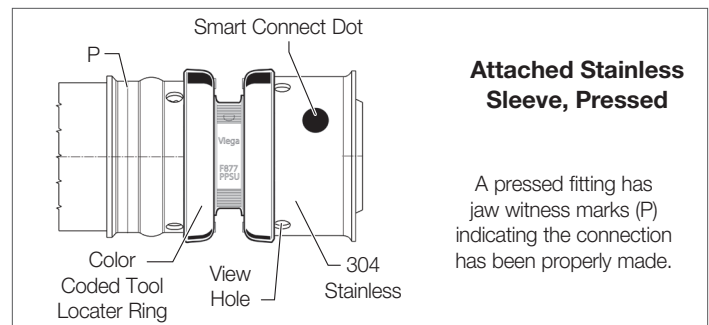


Size inches	A inches	B inches	Tolerances inches	L inches
¾	0.207	0.343	+/- .004	0.595
½	0.315	0.472	+/- .004	0.595
¾	0.486	0.661	+/- .004	0.595
1	0.667	0.855	+/- .004	0.752
1¼	0.819	1.037	+/- .004	1.097
1½	0.952	1.226	+/- .004	1.097
2	1.253	1.582	+/- .004	1.097

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

Smart Connect Technology

Viega PureFlow Press Polymer includes Smart Connect technology. Designed into the fitting itself, Viega Smart Connect technology allows quick and easy identification of an unpressed fitting during pressure testing. Once the fitting is pressed, it creates a leak-proof, reliable connection.



Viega LLC

585 Interlocken Blvd.
Broomfield, CO 80021

Phone (800) 976-9819
www.viega.us

TD-PF 1021 PureFlow Press Polymer

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