

## Tech Data

# Viega ManaBloc® Manifold for PureFlow® PEX

### Scope

The Viega ManaBloc manifold system supplies water to individual plumbing fixtures through dedicated ports and distribution lines. Each outlet port is equipped with a built-in ¼ turn shut-off valve to provide control for each fixture from a central location. The ManaBloc has separate hot and cold ports to manage the entire plumbing system. Based on model, outlet ports can be factory installed or come separately to ensure the exact configuration required is achieved. Supply ports come separately regardless of model. Refer to the Connections Available chart on the next page for availability.

### Materials

The modular ManaBloc sections are molded from polysulfone plastic. This material is used extensively in the medical industry and is highly resistant to hot water, chlorine and other chemicals typically found in potable water systems. The other components making up the ManaBloc consist of corrosion-resistant metals and engineered plastics that have been chosen specifically for each purpose.

### Marking and Certification

ManaBloc units are marked with the product name, unit part number, material designation, production date and marks of third-party certifications by NSF International (NSF-pw) to ASTM F877, ANSI/NSF standards 14 and 61, CSA B137.5, listed with IAPMO as meeting the requirements of the Uniform Plumbing Code and listed to ICC ES-PMG 1038.

### Recommended Uses

The ManaBloc is recommended for use in hot and cold potable water distribution systems in single and multifamily dwellings, as well as multiple-unit structures (apartments, condos, hotels, motels, etc.). Maximum pressure/temperature rating is 100 psi @ 180°F. The ManaBloc is not to be used directly in line with hot water domestic recirculation loops. Viega ManaBloc system components 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

The ManaBloc shall be protected from UV and foreign substances which include but are not limited to VOC (volatile organic chemical) compounds, paints, solvents, glues, cleaners and disinfectants. Products that are exposed to these types of substances are at risk of having failures (leaks). Use of these materials in hot and cold water distribution systems 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.



This document is subject to updates. For the most current Viega technical literature please visit [www.viega.us](http://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.**



Zero Lead identifies Viega products meeting the lead free requirements of NSF/ANSI/CAN 61 through testing under NSF/ANSI/CAN 372 (0.25% or less maximum weighted average lead content).

## Capacities and K-Factor

Specifications	English Units	SI Units
Main Waterway (each side)	1 1/4"	31.8mm
Main Inlet/Outlet Connection	1" Male NPSM	—
Outlet Ports	3/8" CTS and 1/2" CTS	9.5mm and 12.7mm
Outlet Port Rating (each) (@ 8 FPS tubing velocity)	3/8" - 2.5 GPM 1/2" - 4 GPM	3/8" - 9.5 LPM 1/2" - 15.1 LPM
Outlet Port K-Factor	3/8" - .35 1/2" - .21 (PSI=KxGPM <sup>2</sup> )	3/8" - 1.66 x 10 <sup>-3</sup> 1/2" - 9.997 x 10 <sup>-4</sup> (BAR=KxLPM <sup>2</sup> )
Main Bore Flow Capacity (each side) (2015 IPC Table 604.10.1)	31 GPM	117.3 LPM
Main Bore Through Feed K Factor (36 Ports with "Y" Block)	0.012 (PSI=KxGPM <sup>2</sup> )	56.98x10 <sup>-6</sup> (BAR=KxLPM <sup>2</sup> )
WSFU Capacity (each side) (2015 IPC, table E103.3(3))	60	—

## Quality Assurance

When the product is marked with the ASTM F877 designation, it affirms that all ManaBloc manifold control units are factory-assembled and pretested prior to delivery to the field. Viega utilizes protective packaging to reduce risk of damage during shipping and storage. ManaBloc manifolds are not intended to be fabricated or disassembled in the field. ManaBloc manifolds are intended for potable water use only.

## Certifications

- cNSF®us pw-372
  - Zero Lead listing meeting California AB 1953 and Vermont Act 193
  - NSF International Performance and Health Effects (Standards 14 and 61)
  - NSF certified to CSA B137.5 (Canadian Standards Association)



- ICC ES-PMG™ 1038 plumbing applications



- IAPMO Certified

## Connections Available

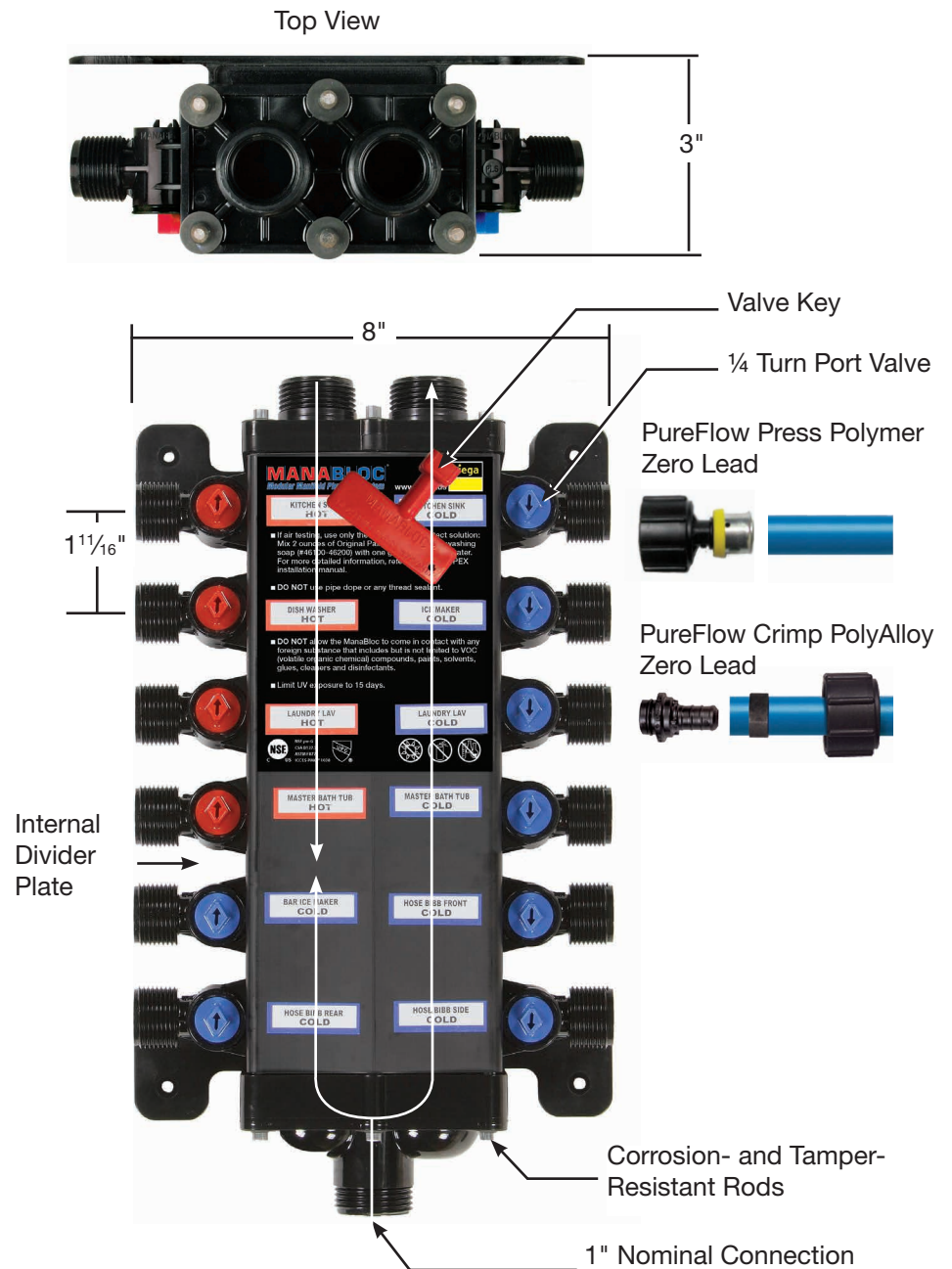
Connection	Polymer	ZL Bronze	Polybutylene <sup>1</sup>
Press	O <sup>2</sup> S	O S	
Crimp	O <sup>2</sup> S	S	O <sup>2</sup>
Compression		S	
MPT		S	S

O = Available connection for outlet ports  
 S = Available connection for supply ports  
<sup>1</sup> For retrofit applications only  
<sup>2</sup> Includes sweep configuration (angled at 12 degrees)

ManaBloc Dimensions	
Total Ports	Length (in)
14	15 <sup>7</sup> / <sub>16</sub>
18	18 <sup>13</sup> / <sub>16</sub>
24	23 <sup>13</sup> / <sub>16</sub>
30	28 <sup>7</sup> / <sub>8</sub>
36	33 <sup>15</sup> / <sub>16</sub>

Dimensions reflect stock ManaBloc sizes.

ManaBloc Pressure Drop Table Expressed as PSI Drop Through Port		
Port Size (in)	Rated Flow (gmp)	PSI Drop (psi)
<sup>3</sup> / <sub>8</sub>	2.5	2
<sup>1</sup> / <sub>2</sub>	4	3.4



**Viega LLC**  
585 Interlocken Blvd.  
Broomfield, CO 80021

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

TD-PF 0622 ManaBloc Manifold

**viega**