



# TechData

## PRODUCT SPECIFICATION SHEET



### Internal Recirculation System

#### Scope

The Viega Internal Recirculation System is an inside lying recirculation system, which uses the supply riser to insulate the internal recirculation piping. With the Viega Internal Recirculation System, the installation of an outside return pipe is eliminated. The Internal Recirculation System saves time, material, space and energy.

#### Materials

- Bronze
- 316 Stainless Steel
- 3/8" PEX Tubing

#### Marking and Certification

NSF-61, CSA, UPC, and ASTM F877

#### Features and Benefits

- Smart Connect® Feature
- Compatible with Viega ProPress Systems, PureFlow PEX Press, ViegaPEX and ViegaPEX Ultra
- Eliminates return pipe cores
- Eliminates return pipe fire caulking
- Eliminates return pipe insulation
- Requires fewer fittings and supports
- Lowers heat loss on return pipe
- Saves time (much faster to install)

#### Sizes and Operating Specifications

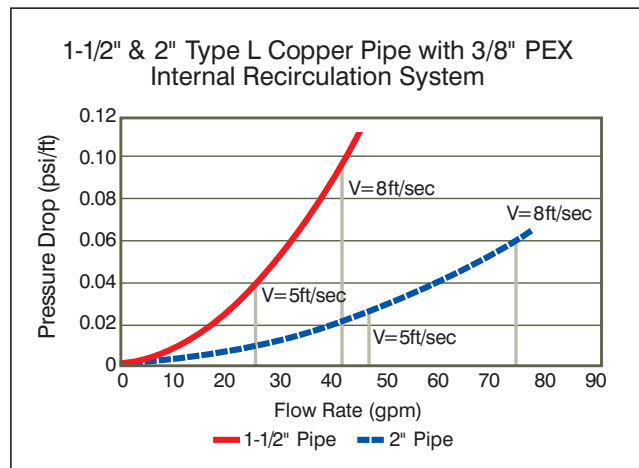
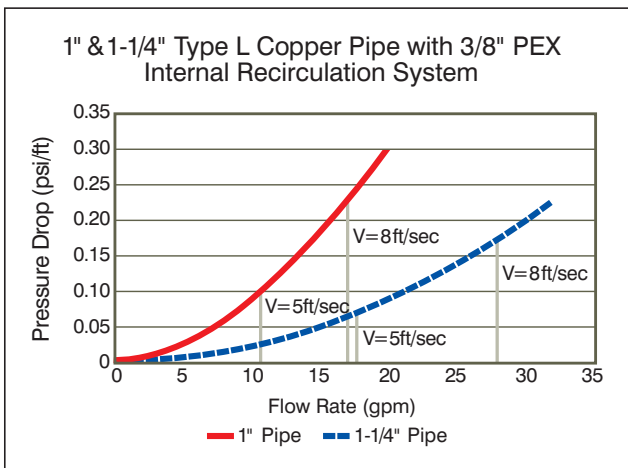
Copper Tube: 1", 1-1/4", 1-1/2", and 2". PEX Tubing: 3/8";  
System Maximum Operating Temperature and Pressure: 140°F @ 120 psi  
6 Floor Maximum



\*Not included in kit



#### Pressure Drop vs. Flow Rate



**VIEGA**  
301 N. Main, Floor 9  
Wichita, KS 67202  
Phone: 1-877-VIEGA-NA  
Fax: 1-800-976-9817

service@viega.com  
www.viega.com

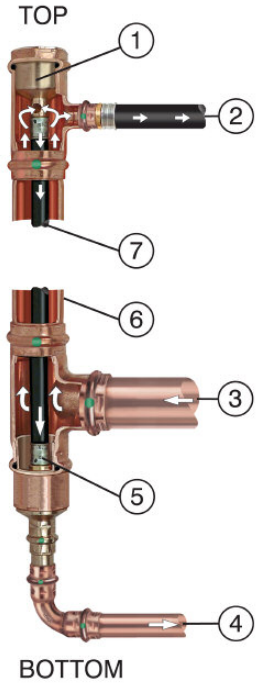
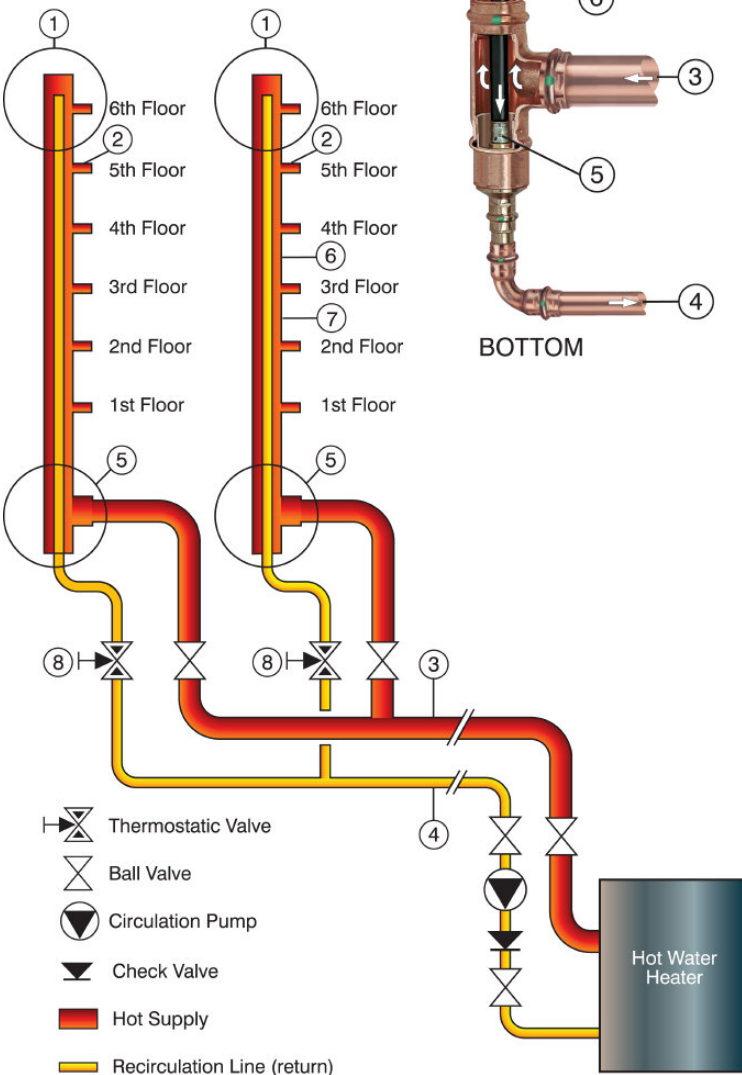


# TechData

## PRODUCT SPECIFICATION SHEET



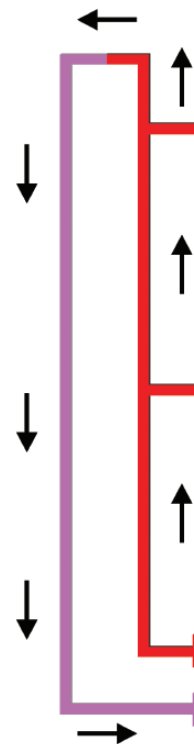
- ① Top Adapter - Connection Set
- ② Distribution Outlet
- ③ Hot Water Supply
- ④ Hot Water Return (Copper)
- ⑤ Bottom Adapter - Connection Set
- ⑥ Hot Water Supply Riser
- ⑦ Hot Water Return (ViegaPEX Ultra)
- ⑧ Thermostatic Valve (Optional)



### System Comparison

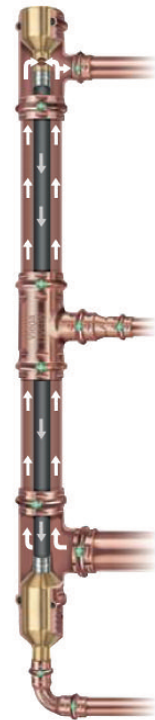
20% – 30% Energy Conservation  
by Reduced Heat Loss

Conventional  
Circulation



Length of Pipe = 262 ft.  
Heat Loss = 499 W  
Flow Generated = 28.79 gal./hr.

Internal  
Recirculation  
System



Length of Pipe = 262 ft.  
Heat Loss = 355 W  
Flow Generated = 23.2 gal./hr.

