



Zero Lead* Internal Recirculation System

Application

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

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

Marking and Certification

- NSF-61 Annex G
- CSA
- UP Code
- 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)

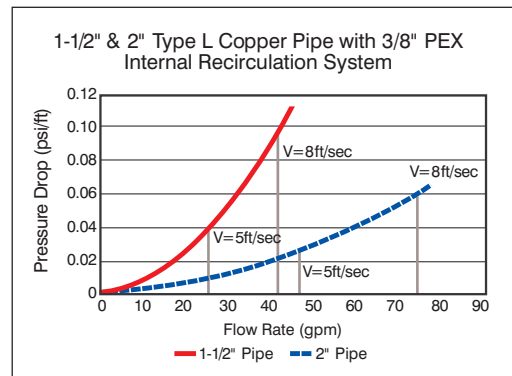
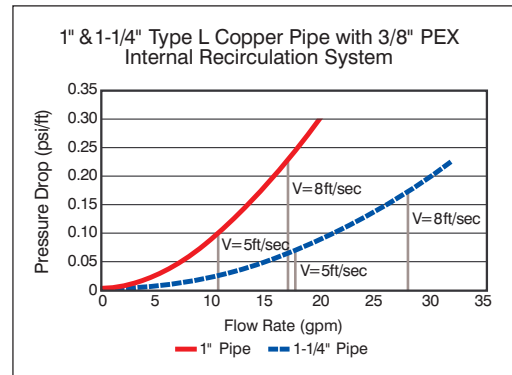
Specifications

- 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

*Zero Lead identifies Viega products meeting the lead free requirements of California and Vermont law, effective January 1, 2010, as tested and listed against NSF - 61, Annex G



Pressure Drop vs. Flow Rate

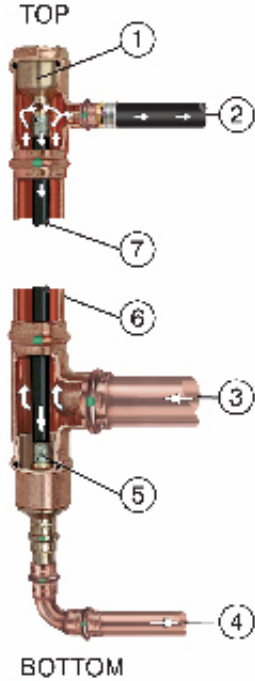
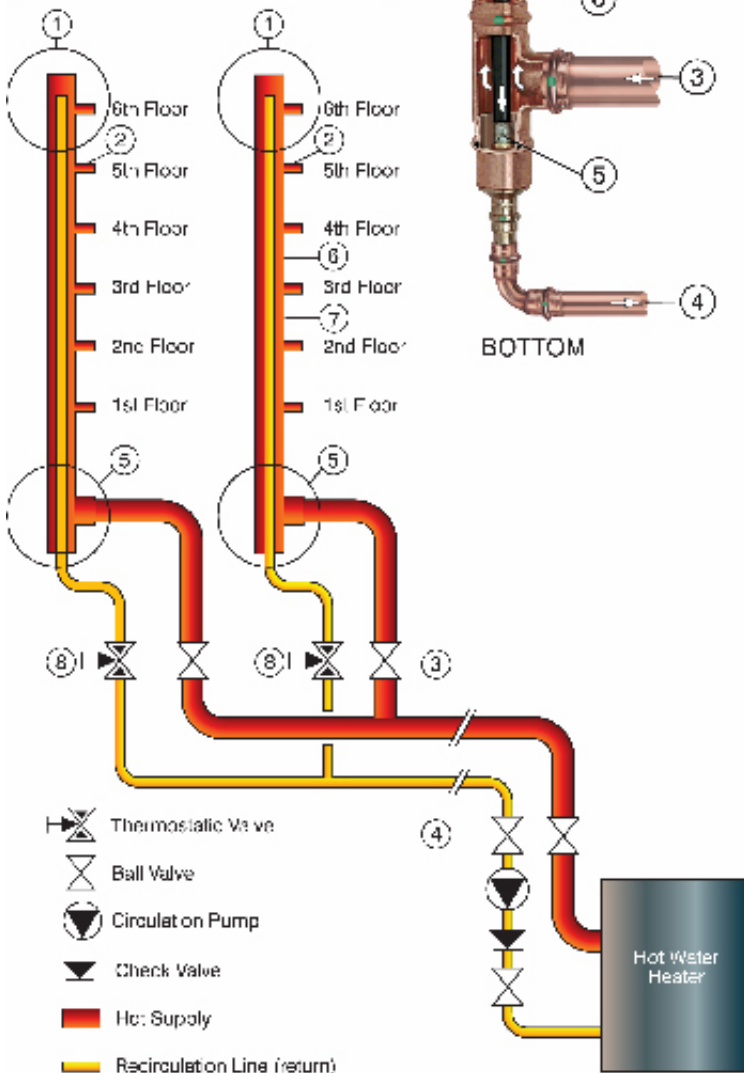


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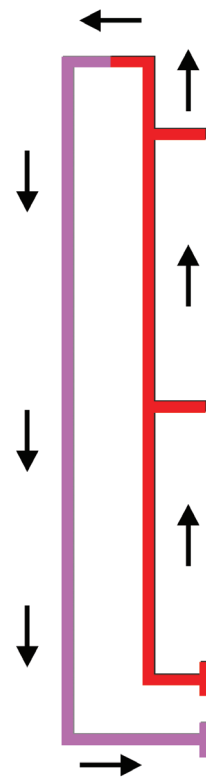
- ① Top Adapter - Connection Set
- ② Distribution Outlet
- ③ Hot Water Supply
- ④ Hot Water Return (Copper)
- ⑤ Bottom Adapter - Connection Set
- ⑥ Hot Water Supply Riser
- ⑦ Hot Water Return (ViegaPEX Ultra)
- ⑧ Thermostatic Valve (Optional)



System Comparison

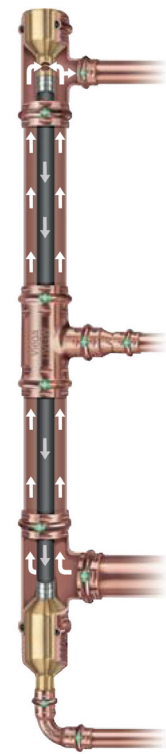
20% – 30% Energy Conservation
by Reduced Heat Loss

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.

