Embrace the Technology®

CircuitSolver®

A ThermOmegaTech® brand

INSTALLATION INSTRUCTIONS
BALANCING VALVES WITH PROPRESS/PROPEX FITTINGS
CSUA-PP & CSUAS-PP/CSUA-PX & CSUAS-PX

1) Install the valve in the proper flow direction as indicated by the arrow on the valve body. This is especially critical for valves equipped with an integrated check valve. The valve may be installed in either a horizontal orientation or in a vertical orientation with flow directed upward.

NOTE: Upon tightening the assembly, verify that the shutoff valves are oriented so that their handles are accessible and can be operated fully without obstruction. If a reorientation after final installation is needed, loosen the **CircuitSolver®** Union Nut to rotate the section so as to not disturb the tightened components and possibly cause a leaky connection.

Scan to watch a quick tutorial video on proper reorientation instructions.

2a) **CircuitSolver® Models ending in -PP:** When using Viega ProPress® adapters, please consult the Viega ProPress® Installation Manual for proper installation, tools, etc.https://www.viega.us/en/products/ProPress/Downloads.html

2b) **CircuitSolver® Models ending in -PX:** When using Uponor ProPEX® adapters, please consult the Uponor ProPEX® Installation Manual for proper installation, tools, etc.
https://www.uponor.com/en-us/products/fittings/metal-fittings/propex-lead-free-(lf)-brass-male-threaded-adapters

3) CircuitSolver® Union Assemblies are designed to be installed at the end of each domestic hot water supply just prior to the return line. See diagram to the right.

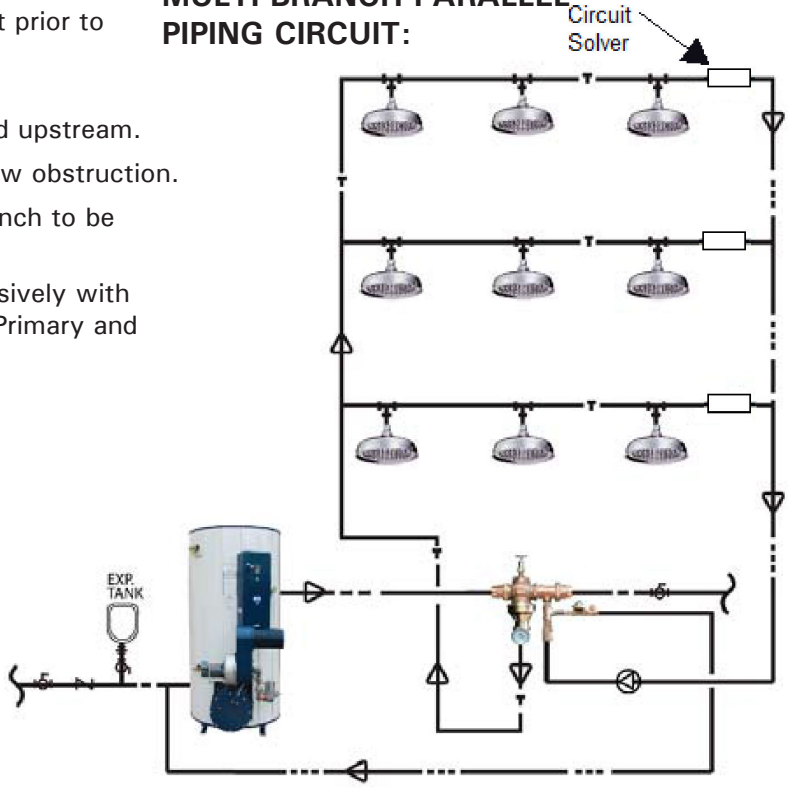
4) For water systems with particulate/dirt problems, consider using a strainer if one is not already used upstream.

*Strainer must be maintained in order to avoid flow obstruction.

5) A convenient drain port allows for the system branch to be flushed without disconnecting plumbing lines.

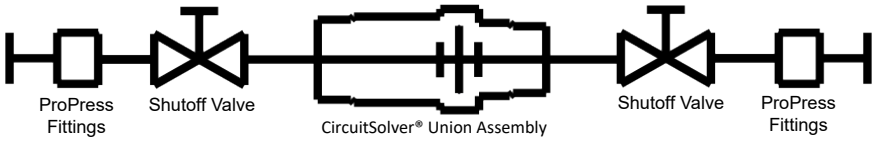
6) The CircuitSolver® valve is designed for use exclusively with fluids that are compliant with U.S. EPA National Primary and Secondary Drinking Water Regulations or the Canadian Drinking Water Quality Guidelines.

MULTI-BRANCH PARALLEL PIPING CIRCUIT:

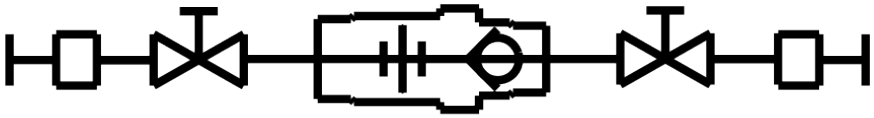


Buy American to Build America®

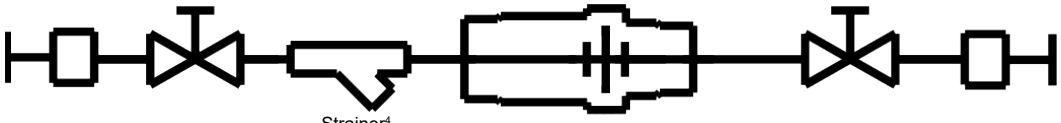
SCHEMATIC DIAGRAMS



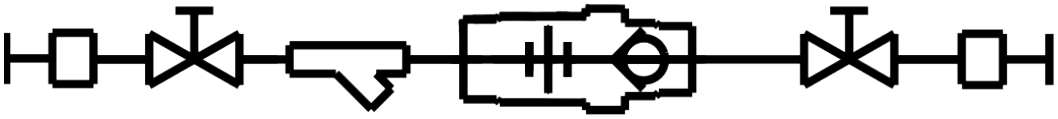
CircuitSolver® Union Assembly with ProPress ends (CSUA-PP)



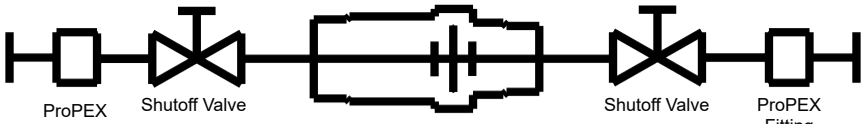
CircuitSolver Union Assembly with integrated Check Valve and ProPress ends (CSUA-PP)



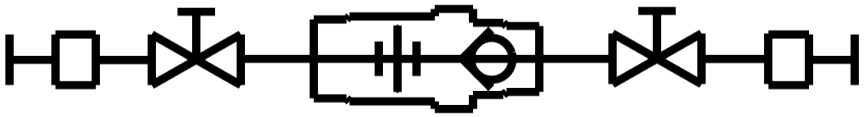
CircuitSolver Union Assembly with integrated Strainer, and ProPress ends (CSUAS-PP)



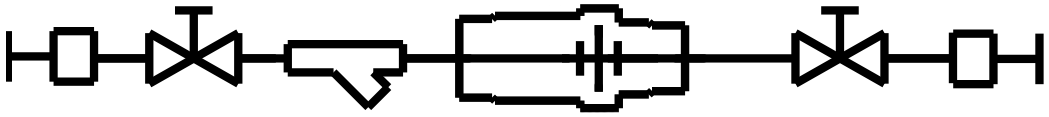
CircuitSolver Union Assembly with integrated Check Valve, Strainer, and ProPress ends (CSUAS-PP)



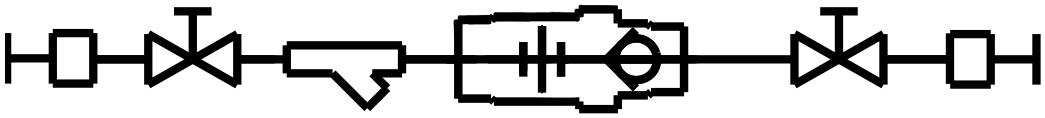
CircuitSolver® Union Assembly with ProPEX ends (CSUA-PX)



CircuitSolver® Union Assembly with integrated Check Valve and ProPEX ends (CSUA-PX)



CircuitSolver® Union Assembly with integrated Strainer and ProPEX ends (CSUAS-PX)



CircuitSolver® Union Assembly with integrated Check Valve, Strainer, and ProPEX ends (CSUAS-PX)

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Proper Use: Use ThermOmegaTech® products only as specified to ensure performance, safety, and regulatory compliance.
No Modifications: Do not modify ThermOmegaTech® products, as changes may void warranties and violate regulations (e.g., RoHS, REACH).
Proper Disposal: Dispose of end-of-life products per local hazardous substance regulations; contact ThermOmegaTech® or recycling facilities for guidance.

⚠ WARNING: This product can expose you to chemicals, for example lead, nickel, acrylonitrile, which are known to the State of CA to cause cancer, birth defects, or reproductive harm. For more information, go to www.P65Warnings.ca.gov

Warranty information disclosed at www.thermomegatech.com/terms-conditions/

CSUA-PP & CSUAS-PP/
CSUA-PX & CSUAS-PX IMI
REV. 7/28/2026