Twist, Flow and Go!

TwistFlow™
RADIAN MANIFOLDS

“The TwistFlow manifolds with built-in sight-flow meters and optional snap-on thermometers make it easy for us to check the temperature and adjust for flow the first time with accuracy, resulting in more profitable projects and happier customers.”

John Palecek,
Energy/Technical Consultant,
Smart Solutions, Inc.,
Kamiah, Idaho

“Easy to adjust flow, balancing between longer and shorter loops off your manifold on system setup. A great innovation!”

Rich Riddle, Owner,
Riddle Mechanical,
Kittredge, Colorado

TwistFlow
Easy fingertip balancing—

Adjustable balancing valves with ¼ to 2 gpm flow meter scale. Simply twist the sight-flow meter to adjust and instantly verify circuit flow.
Caleffi TwistFlow Advantages

1. **Out of the box on to the Wall** — Manifolds are factory pre-assembled and pressure tested.

2. **Universal compression fittings** — 680 series fittings are compatible with all PEX pipe brands meeting ASTM F876 dimensional standards; 682 series fittings are compatible with all PEX-AL-PEX pipe brands meeting ASTM F1281 dimensional standards.

3. **Built-in sight-flow meters integrated with adjustable balancing valves:**
   2. Allows accurate 1/4 to 2 gpm flow rate adjustment to each circuit by simply reading the flow rate on the integral graduated scale.
   3. Determine actual btu output per zone with the optional snap-on thermometer.

4. **One-piece casting design** — Superior leak resistance

5. **Distinctive curved manifold shape results in:**
   1. PEX nesting for flush in-wall mounting.
   2. Constant cross-sectional area for negligible pressure loss and high flow with less noise and smaller pump requirement compared to straight extruded designs.

6. **Pre-assembled with Automatic Air Vents** — Air vents have hygroscopic caps that close when water is near the vent preventing water from spitting.

7. **Complete line of accessories** — Flexible field installation to meet any radiant system need.

### TwistFlow— Pre-assembled, Easy to Install and Balance

#### Feature Comparison

<table>
<thead>
<tr>
<th>Features</th>
<th>Caleffi TwistFlow™</th>
<th>Uponor TruFLOW™ Jr.</th>
<th>Zurn Accordflow® QHPM-</th>
<th>Viega ProfiRadiant™</th>
<th>Rehaus Pro-Balance®</th>
<th>Watts Radiant CazzBrass™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factory pressure-tested single piece cast brass supply and return manifolds</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Built-in Sight Flow Meters integrated with adjustable circuit balancing valves</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Manifold casting indents and offset brackets</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Universal self-adjusting diameter PEX and anti-galvanic PEX-AL-PEX fittings for all pipe brands</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Broad PEX and PEX-AL-PEX piping size compatibility: 5/16” - 3/4”</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Shutoff Ball Valves with Gage Port</td>
<td>Optional</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Manual open/automatic return for individual circuits with optional Caleffi TwisTop™ actuators</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Optional Differential By-Pass</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>No</td>
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<tr>
<td>Pre-assembled standard manifolds complete with automatic air vent and fill/drain valve on supply and return manifolds, adjustable brackets</td>
<td>Yes</td>
<td>Automatic air vent optional</td>
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<td>Automatic air vent optional</td>
<td>Automatic air vent optional</td>
<td>No</td>
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</table>

### The Caleffi Advantage

- Exclusive high-quality construction with less potential leak points compared to extruded designs.
- Allows easy and accurate 1/4 - 2 gpm flow rate adjustment to each circuit by simply reading the flow rate on the integral graduated scale. Simplifies and speeds up circuit calibration without cumbersome reference graphs.
- Narrow profile permits in-line ‘tubing-to-fitting’ runs and allows nesting of PEX for flush mounting inside 2x4 or 2x6 wall cavities.
- Self-adjusting diameters accommodate slight PEX variances from different manufacturers, are corrosion resistant, and have no connection leaks with any ASTM dimensional compliant tubing.
- Provide more PEX sizing flexibility and compatibility with all PEX pipe brands meeting ASTM dimensional standards.
- For temperature gage, knowing flow rate and temperature, BTU can be calculated.
- Purge and fill each circuit without taking off the actuators by manually opening the return manifold shut-off valve. System commissioning and electrical check is simple and quick. Refer to Caleffi Sell Sheet SS-101.
- Maintains constant flow through each circuit as actuators cycle. Simplifies by-pass piping when required.
- Easy specification, ordering, and installation with peace-of-mind quality for ultimate customer satisfaction. Speeds installation time and assures a quality system. Automatic air vent closes automatically when water is near the vent.

For detailed specifications, visit us at: [www.caleffi.us](http://www.caleffi.us)

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