### MicroClave® Technology
- **Base Technology:** Internal cannula and silicone compression seal split-septum. Internal cannula windows are exposed by the insertion of a male luer and cannula enters the male luer’s internal space to achieve flow.
- **Displacement:** Neutral: 0 to -0.01 mL
- **Residual Volume:** 0.04 mL
- **Fluid Path:** Straight through polycarbonate cannula. Enhances flushing efficiency.
- **Number of Fluid Path in Assembly Parts:** 3, of which 1 moves on luer access.
- **Fluid Residual External on Disconnect:** Minimal
- **Clamping Sequence:** None required
- **Flow Rate:** 165 mL/min
- **Clear Available:** Yes
- **Patient Comfort:** 20% smaller profile, 20-23% less weight. Smooth profile.
- **Bacterial Transfer Performance:** The least amount of bacterial transfer of any connector tested.\(^2\)
- **Flushing Performance:** Highly efficient. Connector clear of blood elements with minimal flush volumes from 2 to 7.5 mL. Not recommended to change connector after blood draw.
- **Weight:** 1.807 g (Clear) / 1.874 g (MicroClave Clear)

### One•Link® Technology
- **Mechanically actuated septum. Insertion of a male luer compresses the silicone seal, forcing it against a rigid column, spreading open the top of the seal. Fluid enters the silicone seal chamber, then enters the column through two windows, achieving flow.
- **Displacement:** Neutral: 0 to -0.01 mL
- **Residual Volume:** 0.08 mL (2 times larger)
- **Fluid Path:** Fluid exits male luer into a silicone chamber, then into polycarbonate column.
- **Moving Parts in Fluid Path:** Yes
- **Number of Assembly Parts:** 4, of which 2 move on luer access.
- **Fluid Residual External on Disconnect:** Minimal
- **Clamping Sequence:** None required
- **Flow Rate:** 109 mL/min\(^*\)
- **Clear Available:** Yes
- **Patient Comfort:** Larger and heavier than MicroClave. Irregular profile.
- **Bacterial Transfer Performance:** Exhibits a higher bacterial transfer rate than MicroClave.\(^3\)
- **Flushing Performance:** Baxter recommends flushing One•Link connector with 10 mL or more after blood infusion/sampling. If One•Link connector cannot be cleared of blood after blood infusion/sampling, replace immediately.\(^*\)
- **Weight:** 2.350 g (One•Link)

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\(^2\) Performance data on file at ICU Medical Inc. San Clemente, CA 92673. Reference ENG-433

\(^3\) Baxter and One•Link are trademarks of Baxter International Inc.
How does MicroClave fluid path technology differ from One•Link?

**MicroClave**

The MicroClave incorporates an internal cannula and split-septum silicone compression seal. Upon insertion of a male luer, the silicone seal is depressed and the fluid path windows are exposed through the device's split-septum. MicroClave’s patented split-septum/blunt cannula design allows for a straight-through fluid path with minimal residual volume.

**One•Link**

Insertion of a male luer compresses the silicone seal, forcing it against a rigid column, and spreading open the top of the seal. Fluid enters the silicone seal chamber and then enters the column through two windows, achieving flow.

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3. Center for Biofilm Engineering, June 2012. Study to Evaluate the Differences in Fluid Path Colonization by Connector Type.