WHAT IS CLAIMED IS:

1. An integrated disinfection device comprising:

a cup having an integral body, an annular wall having a length L(a) extending from a closed end to an open end defining a chamber; the annular wall of the cup having an exterior wall surface and an interior wall surface;

a plurality of one-way flexing clips disposed on the exterior wall surface of the annular wall of the cup, the plurality of one-way flexing clips protruding outwards from the exterior wall surface and being adjacent to the closed end of the cup;

a plurality of inward protrusions adjacent to the interior wall surface of the chamber of the cup;

a cap having an integral body, an annular wall having a length L(a) extending from a bottom end to a top end defining a chamber; the chamber of the cap is appropriately sized to adapt to the annular wall of the cup;

a mating surface disposed on the chamber of the cap; and

a plurality of locking holes disposed on the annular wall of the cap, wherein once the closed end of the cup bottoms out on the mating surface of the cap, the locking holes are configured to be in a locking engagement with the plurality of one-way flexing clips disposed on the exterior wall surface of the annular wall of the cup.

2. The integrated disinfection device of claim 1, wherein the locking holes are coincident with the mating surface of the chamber.
3. The integrated disinfection device of claim 1, wherein the inward protrusions are shaped as a hex fitting.
4. The integrated disinfection device of claim 1, wherein a bottom surface of the locking holes coincides with the mating surface of the chamber.
5. The integrated disinfection device of claim 1, wherein the cap includes a connection element.
6. The integrated disinfection device of claim 6, wherein the connection element is a luer slip connection.

7. The integrated disinfection device of claim 6, wherein the connection element is a luer lock connection.