CLAIM(S):

1. A connector assembly for making fluid connections comprising:

(a) a first hollow connector body, the first hollow connector body comprising a recess and a first resilient deformable seal having a central aperture, a seal body and a lip surrounding the central aperture; a first locking mechanism integrally formed with the first hollow connector body, the first locking mechanism comprising at least one lug including a slot, and at least one ramp; a first hollow connector first body end and a first hollow connector second body end;

(b) a second hollow connector body, the second hollow connector body comprising a recess and a second resilient deformable seal having a central aperture, a seal body and a lip surrounding the central aperture; a second locking mechanism integrally formed with the second hollow connector body, the second locking mechanism comprising at least one lug including a slot, and at least one ramp; a second hollow connector first body end and a second hollow connector second body end;

(i) wherein the first hollow connector body and the second hollow connector body contact each other in a first position, and when subsequently twisted together, the first resilient deformable seal seals against the first hollow connector body, and the second resilient deformable seal seals against the second hollow connector body, in a second position, such that the lip of the first resilient deformable seal folds into the recess of the first hollow connector body and the lip of the second resilient deformable seal folds into the recess of the second hollow connector body, and the lip of the first resilient deformable seal contacts the lip of the second deformable seal, and the seal body of the first resilient deformable seal contacts the seal body of the second resilient deformable seal, providing a face to face seal, the second position comprising an actuation position.

2. The connector assembly of claim 1, further comprising a removable anti-actuation assembly comprising at least one peel strip, interposed between the first hollow connector first body end and the second hollow connector first body end, wherein, when the first hollow connector body and the second hollow connector body contact each other in the first position,

the anti-actuation assembly, when present, prevents forming the actuation position of the connector assembly, and when removed, allows forming the actuation position of the connector assembly.

8. The connector assembly of any one of claims 1-7, wherein the first locking mechanism and the second locking mechanism each further comprise a spring arm and a lug guide, the spring arm of the first locking mechanism flexing to allow the lug guide of the second locking mechanism to deflect the spring arm of the first locking mechanism from an initial position until the lug of the second locking mechanism passes by the spring arm of the first locking mechanism and the spring arm of the first locking mechanism returns to the initial position, the spring arm of the second locking mechanism flexing to allow the lug guide of the first locking mechanism to deflect the spring arm of the second locking mechanism from an initial position until the lug of the first locking mechanism passes by the spring arm of the second locking mechanism and the spring arm of the second locking mechanism returns to the initial position.

9. A connector body for use in a connector assembly for making fluid connections comprising:

a hollow connector body, the hollow connector body comprising a recess and a first resilient deformable seal having a central aperture, a seal body and a lip surrounding the central aperture, wherein the lip is foldable into the recess; a locking mechanism integrally formed with the hollow connector body, the locking mechanism comprising at least one lug including a slot, and at least one ramp; a hollow connector first body end and a hollow connector second body end; and an anti-actuation assembly engagement portion comprising at least one recess and/or at least one protrusion;

a removable anti-actuation assembly comprising at least one peel strip, and at least one recess and/or at least one protrusion, the at least one recess and/or at least one protrusion being engaged with the anti-actuation assembly engagement portion of the hollow connector body; and,

a removable cap, engaged with the hollow connector body, wherein the removable anti-actuation assembly is interposed between the cap and the hollow connector first body end, the cap covering the hollow connector first body end.

10. The connector body of claim 9, wherein the locking mechanism furthers comprises a flexible spring arm and a lug guide.

11. A process for making fluid connections comprising:

(a) placing a first hollow connector body, the first hollow connector body comprising a recess and a first resilient deformable seal having a central aperture, a seal body and a lip surrounding the central aperture; a first locking mechanism integrally formed with the first hollow connector body, the first locking mechanism comprising at least one lug including a slot, and at least one ramp; a first hollow connector first body end and a first hollow connector second body end, in contact with a second hollow connector body, the second hollow connector body comprising a recess and a second resilient deformable seal having a central aperture, a seal body and a lip surrounding the central aperture; a second locking mechanism integrally formed with the second hollow connector body, the second locking mechanism comprising at least one lug including a slot, and at least one ramp; a second hollow connector first body end and a second hollow connector second body end, in a first position; and

(b) twisting the first hollow connector body and/or the second hollow connector body such that the first locking mechanism engages with the second locking mechanism, the first resilient deformable seal seals against the first hollow connector body, and the second resilient deformable seal seals against the second hollow connector body, in a second position, such that the lip of the first resilient deformable seal folds into the recess of the first hollow connector body and the lip of the second resilient deformable seal folds into the recess of the second hollow connector body, and the lip of the first resilient deformable seal contacts the lip of the second deformable seal, and the seal body of the first resilient deformable seal contacts the seal body of the second resilient deformable seal, providing a face to face seal, the second position comprising an actuation position.

12. The process of claim 11, further comprising removing an anti-actuation assembly comprising at least one peel strip, interposed between the first hollow connector first body end and the second hollow connector first body end, after (a) and before (b).

13. The process of claim 11 or 12, wherein the first locking mechanism and the second locking mechanism each further comprise a spring arm and a lug guide, and wherein twisting the first hollow connector body and/or the second connector body includes flexing the spring arm of the first locking mechanism to allow the lug guide of the second locking mechanism to deflect the spring arm of the first locking mechanism from an initial position

until the lug of the second locking mechanism passes by the spring arm of the first locking mechanism and the spring arm of the first locking mechanism returns to the initial position, and flexing the spring arm of the second locking mechanism to allow the lug guide of the first locking mechanism to deflect the spring arm of the second locking mechanism from an initial position until the lug of the first locking mechanism passes by the spring arm of the second locking mechanism and the spring arm of the second locking mechanism returns to the initial position.

14. A fluid system comprising a connector assembly of any one of claims 1-8, in fluid communication with a bioprocessing unit, the bioprocessing unit comprising a biocontainer having at least one wall including at least one port, an interior volume and including an impeller, wherein one of the first and second hollow connector bodies is in fluid communication with the port.