

What is claimed is:

1. A tubing support device for tubing of a drug manufacturing system, the tubing support device comprising:
 - a body having a first end, a second end, and a plurality of projections, the plurality of projections including a first projection disposed at the first end and a second projection disposed at the second end, each of the first and second projections including an aperture adapted to receive a fastener; and
 - a bore extending from the first end to the second end of the body, the bore adapted to receive tubing such that the body reinforces the tubing, thereby allowing the tubing to contain fluids at high pressures and/or preventing kinking in the tubing.
2. The tubing support device of claim 1, wherein the body further includes a first body part and a second body part coupled to the first body part, each of the first and second body parts including a first end, a second end, a first projection disposed on the first end, and a second projection disposed on the second end, each of the projections including an aperture.
3. The tubing support device of claim 2, where the second body part is complementary in shape to the first body part, such that the apertures of the first and second projections of the second body part are aligned with the apertures of the first and second projections of the first body part when the first and second body parts are coupled together.
4. The tubing support device of either of claims 2 or 3, wherein the body is a sheath and includes a C-shape, and the first body part is a first half of the sheath and the second body part is a second half of the sheath, each of the first and second body parts having the same shape and forming the bore when coupled together.
5. The tubing support device of any one of the previous claims, wherein the body further includes a first tab disposed at the first end of the body and a second tab disposed at the second end of the body, each of the first and second tabs having a slot adapted to receive a fastener for hanging the body, elevating the tubing adapted to be received within the bore of the body and preventing kinking of the tubing.
6. The tubing support device of any one of claims 2 and 3, wherein the plurality of projections further includes a third projection upwardly extending from a center portion of the body, the third projection including an aperture adapted to receive a fastener.
7. The tubing support device of claim 6, wherein the body is a sleeve having a cylindrical shape, and the body includes an inside surface having a gripping system adapted to contact the tubing for additional securement of the tubing within the body, the gripping system including a first array of teeth disposed on the inside surface near the first end of the body and a second array of teeth disposed on the inside surface near the second end of the body.
8. The tubing support device of claim 7, wherein at least one tooth of the first and second arrays of teeth includes a base having a first side inwardly extending from the base and a second side inwardly extending from the base, the first and second sides forming an edge for gripping the tubing when the tubing is disposed within the bore, and wherein the first and second arrays of teeth each extend around the inside surface of the bore near each of the first and second ends of the body.
9. The tubing support device of any one of claims 2 and 3, wherein the body is a sleeve, and the body includes an inside surface having a plurality of ridges adapted to contact the tubing for additional securement of the tubing within the body.
10. The tubing support device of any one of the previous claims, where the body includes an additively manufactured body comprising an additively manufactured first body part and an additively manufactured second body part coupled to the additively manufactured first body part.
11. A drug manufacturing system, comprising:
 - one or more manufacturing components; and
 - one or more fluid lines fluidly coupled to the one or more manufacturing components, wherein the one or more fluid lines include tubing having a tubing support device, the tubing support device comprising:
 - a body having a first end, a second end, and a plurality of projections, the plurality of projections including a first projection disposed at the first end and a second projection disposed at the second end, each of the first and second projections including an aperture adapted to receive a fastener; and

a bore extending from the first end to the second end of the body, the bore receiving the tubing such that the body reinforces the tubing, thereby allowing the tubing to contain fluids at high pressures and/or preventing kinking in the tubing.

12. The system of claim 11, wherein the body further includes a first body part and a second body part coupled to the first body part, each of the first and second body parts including a first end, a second end, a first projection disposed on the first end, and a second projection disposed on the second end, each of the projections including an aperture having a fastener.

13. The system of any one of claims 11-12, wherein the body is a sheath and includes a C-shape, and the first body part is a first half of the sheath and the second body part is a second half of the sheath, each of the first and second body parts having the same shape and forming the bore when coupled together.

14. The system of any one of claims 11-13, wherein the body further includes a first tab disposed at the first end of the body and a second tab disposed at the second end of the body, each of the first and second tabs having a slot with a fastener for hanging the body, elevating the tubing received within the bore of the body and preventing kinking of the tubing.

15. The system of any one of claims 11 and 12, wherein the body is a sleeve having a cylindrical shape, and the body includes an inside surface having one of: (1) a gripping system contacting the tubing for additional securement of the tubing within the body, the gripping system including a first array of teeth disposed on the inside surface near the first end of the body and a second array of teeth disposed on the inside surface near the second end of the body; or (2) a first plurality of ridges disposed on the inside surface near the first end of the body and a second plurality of ridges disposed on the inside surface near the second end of the body, each of the first and second plurality of ridges contacting the tubing for additional securement of the tubing within the body.

16. A method of manufacturing a tubing support device for a drug manufacturing system, the method comprising:

forming a body including a bore and a plurality of projections, the bore extending along the length of the body and adapted to receive tubing of a drug manufacturing system for reinforcing the tubing and preventing kinking of the tubing during high pressure operations; and

forming an aperture in at least one projection of the plurality of projections, the aperture adapted to receive a fastener.

17. The method of claim 16, wherein forming a body including a bore and plurality of projections comprises forming a body including a bore and a plurality of projections having an aperture in at least one projection using an additive manufacturing technique.

18. The method of any one of claims 16 and 17, wherein forming a body including a bore and a plurality of projections comprises:

forming a first body part having a first end, a second end, a first projection disposed on the first end, and a second projection disposed on the second end, the first body part being a first half of the body; and

forming a second body part having a first end, a second end, a first projection disposed on the first end, and a second projection disposed on the second end, the second body part being a second half of the body.

19. The method of any one of claims 16-18, wherein forming a body including a bore and a plurality of projections further comprises forming a first tab disposed at a first end of the body and a second tab disposed at the second end of the body, and forming a slot in each of the first and second tabs, the slot for receiving a fastener for hanging the body.

20. The method of any one of claims 16-19, wherein forming the body including a bore and a plurality of projections comprises forming a body having an inside surface with one of: (1) a gripping system having a first array of teeth disposed near a first end of the body and a second array of teeth disposed on the inside surface near the second end of the body, disposing each of the first and second arrays of ribs around the inside surface of the body; or (2) a first plurality of ridges disposed near a first end of the body and a second plurality of ridges disposed near a second end of the body.