## CLAIMS

1. A system for managing flexible conduit or tubing used in pharmaceutical, bioprocess, or food/dairy applications comprising:

a segment of flexible conduit or tubing; and

a plurality of conduit tracks, each conduit track including an open conduit channel disposed on a first side thereof and extending along the length of each respective conduit track and dimensioned to receive the segment of flexible conduit or tubing therein, each conduit track further including a connector channel disposed on a second, opposing side and extending along the length of each respective conduit track and containing a plurality of connectors that connect adjacent conduit tracks in an end-to-end fashion , each of the plurality of connectors comprising a base having a pair of angled walls or edges that extend along a length thereof having tabs formed thereon that engage with corresponding tabs in the plurality of conduit tracks.

2. The system of claim 1, further including one or more of a pump, valve, sensor, filter, chromatography column, elution column, reactor, reservoir, and manifold interposed between at least two conduit tracks.

3. The system of claim 1, wherein the conduit channels are C-shaped or semi-annular.

4. The system of claim 1, wherein the plurality of conduit tracks and the segment of flexible conduit or tubing are mounted on a scaffold or support structure.

5. The system of claim 4, wherein the scaffold or support structure is contained on a cart.

6. The system of claim 1, wherein the plurality of conduit tracks comprise conduit tracks of different shapes.

7. A system for managing flexible conduit or tubing used in pharmaceutical, bioprocess, or food/dairy applications comprising:

a plurality of conduit tracks configured to connect to one another in an end-to-end fashion with one or more connectors, each conduit track including an conduit channel disposed on a first side thereof and extending along the length of each respective conduit track and dimensioned to receive a flexible conduit or tubing therein, each conduit track further including a connector channel disposed on a second, opposing side and extending along the length of each respective conduit track and containing the one or more connectors; and

a flexible conduit or tubing disposed in the conduit channel;

a valve body or valve assembly containing the flexible conduit or tubing therein and interfacing with one or more of the conduit tracks, the valve body or valve assembly comprising a mounting channel and wherein the connector connecting the valve body or valve assembly to the one or more of the conduit tracks comprises a base having a pair of retaining members extending along a length of the connector and configured to mate with the mounting channel.

8. The system of claim 7, wherein the conduit channel is C-shaped or semi-annular.

9. The system of claim 7, wherein each connector channel comprises a pair of walls extending from the conduit channel and forming an open channel or slot therein, the walls of the pair each having respective retaining tabs located on an edge thereof.

10. The system of claim 9, wherein each of the one or more connectors comprises a base having a pair of retaining members extending along a length thereof and configured to mate with the pair of walls and retaining tabs.

11. The system of claim 7, wherein the mounting channel comprises a notched channel and the pair of retaining members comprise a pair of walls extending from the base, the walls of the pair each having respective retaining tabs located on an edge thereof, and wherein the walls with the respective retaining tabs engage with the notched channel to secure the valve body or valve assembly to the connector.

12. A system for managing flexible conduit or tubing used in pharmaceutical, bioprocess, or food/dairy applications comprising:

a valve comprising a hinged valve body having a first body portion and a second body portion connected to one another at a hinge, the first body portion and the second body portion defining a passageway extending through the valve body when in a closed state, the valve further comprising an actuator disposed on the valve body and having a pinching element configured to selectively move into and out of the passageway, wherein one of the first body portion and the second body portion includes a mounting channel disposed therein and oriented along the direction of the passageway;

a flexible conduit or tubing extending through the passageway of the valve body;

a first conduit track disposed on one side of the valve body, the first conduit track comprising a conduit channel extending along the length of the first conduit track and dimensioned to receive the flexible conduit or tubing therein, the first conduit track further comprising a connector channel extending along the length of the first conduit track;

a second conduit track disposed on an opposite side of the valve body, the second conduit track comprising a conduit channel extending along the length of the second conduit track and dimensioned to receive the flexible conduit or tubing therein, the second conduit track further comprising a connector channel extending along the length of the second conduit track; and

at least one connector disposed in the mounting channel and extending into the connector channel of the first conduit track and the connector channel of the second conduit track, wherein the valve body is secured to the connector.

13. The system of claim 12, wherein the conduit channels of the first and second conduit tracks are C-shaped or semi-annular.

14. The system of claim 12, wherein the connector channels of the first and second conduit tracks comprise a pair of walls forming an open channel, the walls of the pair each having respective retaining tabs located on an edge thereof.

15. The system of claim 14, wherein the at least one connector comprises a base having a pair of retaining members extending along a length thereof and configured to mate with the pair of walls and retaining tabs of the connector channels.

16. The system of claim 12, wherein the at least one connector comprises a base having a pair of retaining members extending along a length thereof and configured to mate the mounting channel.

17. The system of claim 16, wherein the mounting channel comprises a notched channel and the pair of retaining members comprise a pair of walls extending from the base, the walls of the pair each having respective retaining tabs located on an edge thereof, and wherein the walls with the respective retaining tabs engage with the notched channel to secure the valve to the at least one connector.