What is claimed is:

1. A cassette for a drug delivery device comprising:

a cassette base portion including a reservoir recess surrounded by an attachment surface, the attachment surface including a reservoir outlet flow path recessed therein; and a reservoir film coupled to the attachment surface and, together with the reservoir recess, defining a flexible reservoir, a portion of the reservoir film having a preformed shape which mimics the contour of the reservoir recess, the preform shape causing the reservoir film to be disposed adjacent the surface of reservoir recess when the reservoir is in an empty state; and

at least one duct recessed into the surface of the reservoir recess, each of the at least one duct defining a flow path which remains in fluid communication with the reservoir outlet flow path when the reservoir is in an empty state.

2. The cassette of claim 1, wherein the reservoir film comprises an outcrop region that is included in the reservoir film and forms a seal over the reservoir outlet flow path when the reservoir film is coupled to the attachment surface.

3. The cassette of claim 1, wherein the reservoir film includes at least two layers.

4. The cassette of claim 1, wherein the reservoir film is heat bonded to the attachment surface.

5. The cassette of claim 1, wherein the cassette base portion includes a side wall having a fill port leading to an interior volume of the reservoir.

6. The cassette of claim 5, wherein a basin is recessed into the reservoir recess directly downstream of an inlet leading to the interior volume of the reservoir from the fill port.

7. The cassette of claim 6, wherein at least one of the at least one duct extends into communication with the basin.

8. The cassette of claim 1, wherein the at least one duct includes a plurality of ducts which that converge together at a confluence, the confluence disposed intermediate the reservoir outlet flow path and the ducts.

9. The cassette of claim 1, wherein the at least one duct includes a first duct and a second duct which furcates off of the first duct.

10. The cassette of claim 1, wherein the reservoir recess includes a wall which extends from a bottom surface of the reservoir recess to the attachment surface and the at least one duct includes a duct which is disposed along a portion of a perimeter of the bottom surface adjacent the wall.

o

11. The cassette of claim 10, wherein the duct disposed along a portion of the perimeter is disposed along a majority of the perimeter.

12. The cassette of claim 1, wherein the reservoir recess includes a wall which extends from a bottom surface of the reservoir recess to the attachment surface and the at least one duct includes a portion recessed into the bottom surface and a second portion recessed into the wall.

13. The cassette of claim 12, wherein the first portion of the at least one duct has a first width and the second portion of the at least one duct has a variable width.

14. The cassette of claim 12, wherein the width of the second portion of the at least one duct tapers from a first width to a second width smaller than the first width.

15. The cassette of claim 12, wherein the first portion of the at least one duct is the second width.

16. The cassette of claim 1, wherein the at least one duct includes a plurality of ducts which extend from a confluence region at regular angular intervals, the confluence region being disposed intermediate the plurality of ducts and the reservoir outlet flow path.

17. The cassette of claim 1, wherein the reservoir outlet flow path includes an air trap.

18. A cassette for a drug delivery device comprising:

a cassette base portion including a reservoir recess surrounded by an attachment surface, the cassette base portion further including a weld surface along a portion of the periphery of the cassette base portion and a plurality of locating pins;

a reservoir film coupled to the attachment surface and, together with the reservoir recess, defining a flexible reservoir; and

a cassette top portion including a number of locating pin receptacles and a peripheral energy director, the energy director being aligned with the weld surface and a portion of the reservoir film bonded to the attachment surface when the locating pins are disposed within the locating pin receptacles, the energy director being welded to the weld surface and the portion of the reservoir film.

19. The cassette of claim 18, wherein the energy director comprises a triangular cross section.

20. The cassette of claim 18, wherein the energy director is sonically welded to the weld surface and the portion of the reservoir film.

21. The cassette of claim 18, wherein the energy director is ultrasonically welded to the weld surface and the portion of the reservoir film.

22. The cassette of claim 18, wherein the reservoir film includes at least two layers.

o

23. The cassette of claim 18, wherein the cassette top portion includes a bay including a number of retention tabs.

24. The cassette of claim 23, wherein the cassette further comprises a cover having a number of latch clips, the latch clips configured to cooperatively engage the retention tabs of the bay, the cover being coupled to the cassette top portion when the latch clips cooperatively engage the retention tabs.

o