CLAIMS

1. An IV catheter system, comprising:

a catheter component comprising:

a catheter hub comprising a top, a bottom, a side disposed between the top and the bottom, a catheter hub distal end, a catheter hub proximal end, and a catheter hub intermediate portion disposed between the catheter hub distal and proximal ends, wherein the catheter hub is shaped to define a chamber extending between the catheter hub distal end and the catheter hub proximal end, and a needle port at the catheter hub proximal end that provides access to the chamber;

a cannula extending distally from the catheter hub distal end;

an extension tubing junction extending outwardly from the catheter hub intermediate portion to contact the catheter hub to extension tubing;

a first wing fixedly secured to the catheter hub and extending outwardly from the side of the catheter hub or the bottom of the catheter hub, wherein the extension tubing junction extends in an opposite direction of the first wing;

a second wing disposed proximal to the extension tubing junction and extending between the catheter hub and the extension tubing junction, the second wing incorporating but not extending outwardly beyond the extension tubing junction, wherein the first wing is more flexible that the second wing, and wherein the second wing extends in the opposite direction of the first wing; and

a needle component inserted into the needle port, the needle component comprising:

a needle hub, comprising a top, a bottom, a needle hub distal end, and a needle hub proximal end;

a needle extending distally from the needle hub distal end along an axis, wherein the needle extends distally beyond the cannula, wherein the needle comprises a bevel oriented towards the top of the needle hub; and

a grip extending from the needle hub generally parallel to the axis and the wing such that the wing and the grip overlap, wherein a proximal portion of the grip is attached to the needle hub, wherein a distal portion of the grip is not attached to the needle hub and extends along a side of the needle hub between the top and the bottom of the needle hub.

2. The IV catheter system of claim 1, wherein the needle hub includes opposing side grips and the catheter component includes a push tab, wherein each of the side grips comprises a protrusion.

3. The IV catheter system of claim 2, wherein the needle component includes a flash chamber, the opposing side grips being formed on opposing sides of the flash chamber.

4. The IV catheter system of claim 1, wherein the wing is a first wing, wherein the catheter component further comprises a second wing that extends in the opposite direction of the first wing, the second wing incorporating but not extending beyond the extension tubing junction.

5. The IV catheter system of claim 1, wherein the grip comprises an alignment ridge that protrudes towards the wing, wherein the alignment ridge extends parallel to the axis.

6. The IV catheter system of claim 1, wherein parallel to the axis, wherein the grip comprises a plurality of alignment ridges disposed within the plurality of slots, wherein the plurality of slots

extend through a proximal end of the wing such that the alignment ridges are configured to move proximally through the slots, wherein each of the plurality of slots comprises a proximal end, wherein each of the plurality of alignment ridges comprises a distal end that contacts the proximal end of the plurality of slots to prevent the needle component from moving proximal to the catheter component when the plurality of alignment ridges are disposed within the plurality of slots.

7. The IV catheter system of claim 6, wherein each of the plurality of alignment ridges comprises a proximal end, wherein the proximal ends of each of the plurality of alignment ridges are disposed distal to the proximal end of the wing.

8. The IV catheter system of claim 1, wherein the catheter component comprises a push surface oriented substantially perpendicular to the axis and fixed between the extension tubing junction and the catheter hub.

9. An IV catheter system, comprising:

a catheter component comprising:

a catheter hub comprising a top, a bottom, a side disposed between the top and the bottom, a catheter hub distal end, and a catheter hub proximal end, wherein the catheter hub is shaped to define a chamber extending between the catheter hub distal end and the catheter hub proximal end, and a needle port at the catheter hub proximal end that provides access to the chamber;

a cannula extending distally from the catheter hub distal end;

a wing fixedly secured to the catheter hub and extending outwardly from the side of the catheter hub or the bottom of the catheter hub, the wing comprising a plurality of slots; and

a needle component inserted into the needle port, the needle component comprising:

a needle hub, comprising a top, a bottom, a needle hub distal end, and a needle hub proximal end;

a needle extending distally from the needle hub distal end along an axis, wherein the needle extends distally beyond the cannula, wherein the needle comprises a bevel oriented towards the top of the needle hub; and

a grip extending from the needle hub generally parallel to the axis and the wing such that the wing and the grip overlap, wherein a proximal portion of the grip is attached to the needle hub, wherein a distal portion of the grip is not attached to the needle hub and extends along a side of the needle hub between the top and the bottom of the needle hub, the grip comprising a plurality of alignment ridges disposed within the plurality of slots, wherein the plurality of slots is parallel to the axis and extends through a proximal end of the wing such that the alignment ridges are configured to move proximally through the slots, wherein each of the plurality of slots comprises a proximal end, wherein each of the plurality of alignment ridges comprises a distal end that contacts the proximal end of the plurality of slots to prevent the needle component from moving proximal to the catheter component when the plurality of alignment ridges are disposed within the plurality of slots.

10. The IV catheter system of claim 9, wherein each of the plurality of alignment ridges comprise a proximal end, wherein the proximal end of each of the plurality of alignment ridges are disposed distal to the proximal end of the wing.