CLAIMS

1. A vascular access device comprising:

a catheter assembly from which a catheter extends distally, the catheter assembly having a side inlet;

a side port having a distal end that is coupled to the catheter assembly via the side inlet, a proximal end and a side branch to which an extension set is coupled, the side branch being between the proximal end and distal end; and

a septum housing that is coupled to the proximal end of the side port, the septum housing having a septum and being configured to move from a blood collection position to a fluid injection position, wherein, when the septum housing is in the blood collection position, the septum of the septum housing blocks a fluid pathway between the distal end of the side port and the side branch, and wherein, when the septum housing is in the fluid injection position, the septum of the septum housing does not block the fluid pathway between the distal end of the side port and the side branch.

2. The vascular access device of claim 1, wherein the septum housing is rotated from the blood collection position to the fluid injection position.

3. The vascular access device of claim 2, wherein, when the septum housing is in the blood collection position, the septum covers an opening of the side branch, and wherein, when the septum housing is in the fluid injection position, the septum does not cover the opening of the side branch.

4. The vascular access device of claim 3, wherein the septum has an angled distal end.

5. The vascular access device of claim 4, further comprising:

a first channel that vents air from within the side port when the septum housing is in the blood collection position; and

a second channel that vents air from within the extension set when the septum housing is the blood collection position.

6. The vascular access device of claim 5, wherein the first channel is formed in a sidewall of the side port and the second channel is formed in the septum.

7. The vascular access device of claim 2, wherein the septum housing includes a septum housing sidewall having an opening, and wherein, when the septum housing is in the blood collection position, the opening in the septum housing sidewall does not overlap with an opening of the side branch, whereas, when the septum housing is in the fluid injection position, the opening in the septum housing sidewall overlaps with the opening in the side branch.

8. The vascular access device of claim 7, further comprising:

a first channel formed in the septum housing sidewall that vents air from within the side port when the septum housing is in the blood collection position; and

a second channel formed in the septum housing sidewall that vents air from within the extension set when the septum housing is the blood collection position.

9. The vascular access device of claim 1, wherein the septum housing is moved linearly from the blood collection position to the fluid injection position.

10. The vascular access device of claim 9, wherein the septum housing includes a septum housing sidewall having an opening, and wherein, when the septum housing is in the blood collection position, the opening in the septum housing sidewall does not overlap with an opening of the side branch, whereas, when the septum housing is in the fluid injection position, the opening in the septum housing sidewall overlaps with the opening in the side branch.

11. The vascular access device of claim 10, further comprising:

a first channel that vents air from within the side port when the septum housing is in the blood collection position; and

a second channel that vents air from within the extension set when the septum housing is the blood collection position.

12. The vascular access device of claim 11, wherein the first channel is formed in the septum housing sidewall and the second channel is formed in a sidewall of the side port.

13. The vascular access device of claim 12, wherein the septum housing includes one or more seals that block the first and second channels when the septum housing is in the fluid injection position.