CLAIMS:

1. An intravenous infusion set to administer continuous air free delivery of intravenous fluid to a patient, said intravenous infusion set comprising:

a drip chamber provided with a spike on the upper end and a flow regulating and stopping member at its lower end configured to administer continuous air free delivery of intravenous fluid to patients, wherein the flow regulating and stopping member is a hydrophilic membrane, wherein the drip chamber is provided with at least two chambers comprising a lower chamber and an upper chamber connected by a connecting means such as a ring defining a passage, wherein a lower end of said lower chamber is sealed with a connector resulting into an outlet which in turn is connected to a flexible infusion line, and wherein the outlet comprises a distal extension from the main body of the connector such that a fluid/liquid reservoir is formed on the distal side of the connector, wherein the distal extension of the outlet comprises one or more slits, wherein the flexible infusion line is of sufficient length to connect a lower end of the drip chamber to a standard connector at the patient end so that a needle or a catheter could be connected to the patient; and

a roller clamp arranged between the drip chamber and the standard connector being movable along the length of the flexible infusion line;

wherein

the one or more slits are configured to prevent air bubbles from entering the flexible infusion line, such that the edge of the one or more slits is/are serrated and/or rough.

2. The intravenous infusion set as claimed in claim 1, wherein said flow regulating and stopping member is sealed onto a sealing leg or ring provided in said connector.

3. The intravenous infusion set as claimed in claim 2, wherein said flow regulating and stopping member is arranged to seat in the lower end of the lower chamber.

4. The intravenous infusion set as claimed in claim 3, wherein the flow regulating and stopping member has a proximal face and a distal face and the proximal face of the member includes a sealing area.

5. The intravenous infusion set as claimed in claim 4, wherein said flow regulating and stopping member is sealed onto said sealing leg or ring by said sealing area.

6. The intravenous infusion set as claimed in any one of claims 2 to 5, wherein the hydrophilic membrane is sealed to the sealing leg or ring by heat sealing, adhesive sealing, ultrasonic welding, heated die, radio frequency, mechanical seal, insert molding, laser welding, press/snap fit, or annular ring with groove fitment.

7. The intravenous infusion set as claimed in claim 4, wherein said flow regulating and stopping member is sealed on the distal face.

8. The intravenous infusion set as claimed in any one of claims 2 to 7, wherein the sealing leg or ring is provided on the connector and forms the distal end of the reservoir opposite to a proximal reservoir bottom, wherein the distal extension protrudes distally from the reservoir bottom to define a ring-like reservoir around it.

9. The intravenous infusion set as claimed in any one of claims 1 to 8, wherein the distal extension of the outlet comprises three slits, preferably periodically placed on the distal extension to connect the inside of the reservoir through the outlet with the outside in a direction perpendicular to the main extension direction of the drip chamber.

10. The intravenous infusion set as claimed in any one of claims 1 to 9, wherein the one or more slits is/are located on a central portion which extends in a distal to proximal direction along the distal extension, preferably over more than 50% of the extension of the distal extension and/or preferably from the reservoir bottom.