Claims

1. An IV set comprising:

a drip chamber (301);

a spike (302) for fluidly coupling the drip chamber

(301) to a fluid bag;

a housing (320) having an air vent (321);

and an air stop membrane (305) disposed within the housing (320) and below the drip chamber (301), wherein the air stop membrane (305) is coupled to the drip chamber (301), wherein the air stop membrane (305) maintains a fluid column below the membrane after a fluid level within the IV set reaches the membrane (305), wherein the air stop membrane (305) has a greater cross-sectional area than the drip chamber (301),

characterized in that

the air stop membrane (305) has a pore size of approximately 5µm, a bubble point pressure of approximately 34474 Pa (344.74 mbar/5.0 psig), a trans-membrane flow rate of approximately 200 ml/(min cm2 mPa) (2000ml/min/cm2/bar) and a cross-sectional area of approximately 2.85 cm^2.

2. The IV set of claim 1, wherein the membrane (305) is a hydrophilic membrane.

3. The IV set of claim 1, wherein the air stop membrane (305) is vertically-oriented.