

VII. Abstract

A resealable transfer assembly for a container such as a bottle or vial featuring a membrane for selectively opening or sealing a fluid path between the bottle and a medical delivery device introduced into the assembly. The assembly includes a body disposed on the bottle, and a luer connector hub which may be separately provided with the body or formed integrally therewith. A free plug rests in a cavity defined within the luer connector hub. The free plug includes an orifice dimensioned to accept a luer tip associated with the medical delivery device. A membrane, preferably formed from an elastomeric material, is secured across both the opposed end of the luer connector hub and the open top of the bottle, and may be retained between the top surface of the bottle and the body. The membrane preferably includes a central area sealing the opposed end of the luer connector hub from the open top of the bottle, with one or more fluid openings defined on a portion of the membrane outside of the central area. When the luer tip is inserted into the orifice of the free plug, a force is exerted onto the central area to deflect the membrane towards the interior of the vial, urging the membrane from sealing contact with the body and, hence, opening the fluid path between the interior of the bottle and the medical delivery device. The membrane is resealed with the body prior to removal of the luer tip from the orifice to prevent fluid splashback from the container.

