Means and method for filling bag-on-valve aerosol barrier packs

Abstract

A bag-on-valve aerosol valve system in a container. Propellant is pressure filled around the valve stem, outwardly over the stem gasket and down into the container space outside the bag. Product is filled through the valve stem into the bag. The valve stem has an exterior intermediate frusto-conical annular surface and the valve housing has an interior frusto-conical annular surface, with both surfaces engaging in annular sealing contact to block propellant access to the bag when the valve stem is deeply depressed to a first predetermined position for propellant pressure filling. A stem exterior surface indent interacts with radially-biased spring-loaded slides to lock the stem in a second less depressed predetermined position for product filling through the stem down into the bag. The propellant and product may be pressure filled in either order using essentially conventional pressure filing equipment, after the valve is mounted on the container and the bag is mounted on the valve.