

The Piston Barrier Package from CCL Container

Efficient High-Viscosity Dispensing

The economic alternative to other more costly barrier systems, CCL Container's piston barrier package is used for a wide variety of applications, such as post-foaming hair gels, other cosmetic/pharmaceutical creams and lotions, food spreads, industrial lubricants and sealants. The piston assures separation of the product from the propellant, maintaining the purity and integrity of the formulation throughout its consumer life span. The system also provides a controlled and uniform product discharge rate with minimal product retention.



THE PISTON BARRIER SYSTEM

How it works

A plastic cup-shaped plunger is fitted inside a seamless aluminum can to create a hydraulic seal that maintains separation of the product from the propellant throughout the life-cycle of your product. The propellant is automatically injected through a small hole in the base of the container and sealed in place by a flexible rubber plug. When the actuator is depressed, the propellant exerts the pressure required to raise the piston, forcing pure product to discharge in a smooth, controlled manner. Product viscosity is a primary consideration in both the function of a piston can and the type of piston that is employed for the specific application (free-float or wall-wipe). CCL Container's personnel will gladly work with your development group to tailor the package to your specific product to ensure optimal performance.

A full range of styles

CCL Container offers a wide range of piston shapes, styles and sizes, as well as various plastic options. Pistons are available in either wall-wiping or free-float geometries to satisfy your specific application, propellant choice and performance requirements. Wall-wiping pistons are generally preferred if the product's viscosity is at the lower end of the typical range. Free-float pistons are preferred when the product's viscosity is higher.

Dispensing advantages

CCL Container's piston barrier package:

- Ensures product integrity throughout consumer use by maintaining product/propellant separation
- Provides smooth, controlled and uniform product discharge
- Maximizes product evacuation
- Conforms to FDA requirements for most food products
- Eliminates propellant bypass tendency common with other metal containers because of its seamless aluminum construction
- Comes with precision-engineered gassing hole to improve sealing during gassing and plugging operations

Available Sizes†

Diameter	Free-Float	Wall-Wipe	Capacity*	Propellant	Piston Type
45mm	Yes	Yes	4.2–8.7 Oz	LPG or N2	ABS or PP
53mm	Yes	No	5.2–13.0 Oz	LPG or N2	ABS or PP
55mm	No	Yes	5.7–12.0 Oz	N2 Only	PP
66mm	Yes	No	7.8–19.5 Oz	N2 Only	PP

* Capacity values are approximations. Actual product fill-to-container ratios must be determined on a case-by-case basis.

† The sizes shown represent commercially available options for which stock tooling exists. However, as additional opportunities arise, CCL Container would be pleased to present quotes covering other specialized requirements that may not be shown.

