



The Piston Barrier Package

from CCL Container

Efficient High-Viscosity Dispensing

CCL Container's piston barrier package is the economical alternative to more costly barrier systems. Its design and performance are ideal for a wide variety of applications, including food spreads, pharmaceutical creams, cosmetics and personal care products, like post-foaming hair gels. Industrial products like lubricants and sealants are also well suited to this cost efficient packaging solution.

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.

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
- Eliminate 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	Can H Range
45 mm	Yes	Yes	120 – 235
50 mm	No	Yes	120 – 235
53 mm	Yes	No	120 – 200
55 mm	No	Yes	120 – 200

†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 others specialized requirements that may not be shown.

Contact Information

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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 geometrics to satisfy your specific application. **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- meaning thicker, denser, or even stickier.