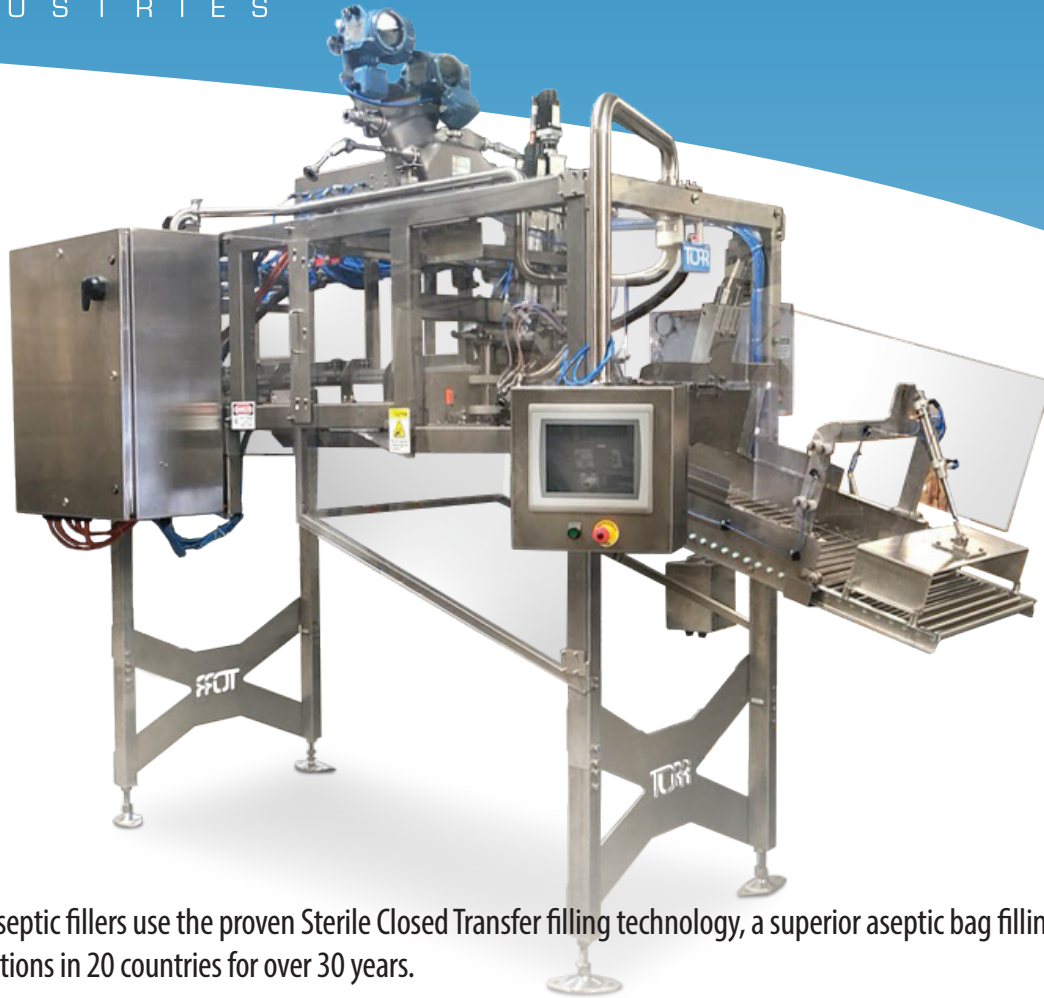




ASEPTIC LIQUID BAG FILLING & DISPENSING SYSTEMS

TORR's SteriGLAND™ aseptic packaging system for filling and dispensing shelf stable liquid foods and sterile solutions.



TORR aseptic fillers use the proven Sterile Closed Transfer filling technology, a superior aseptic bag filling system used in over 500 installations in 20 countries for over 30 years.

TORR aseptic bag fillers have FDA Letter of Non-Objection (LONO) in the USA and Canada.

The SteriGLAND™ system is a significant upgrade to the proven FDA-validated double membrane gland filling system developed in Australia 30 years ago.

TORR's patent pending improvements to the technology relate to the filler head, bag fill gland, and dispense fitments. The improvements provide faster, consistent fills and a range of single fitment bag dispense capabilities.

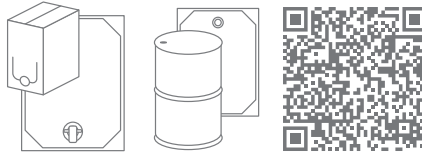
Sterile Closed Transfer requires a SteriGLAND™ 32mm sealed membraned fill gland that is welded on the bag by the bag manufacturer in place of a conventional friction fit cap gland. The TORR fill valve clamps to the fill gland throughout the complete bag filling process.

Our process eliminates the need for chemicals and sterile air typically used in cap closure aseptic fillers.

Over 500 SteriGLAND™ Fillers Installed in 20 Countries over 30 Years

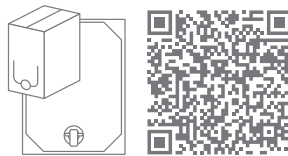
TORR 60

This single head hand feed bag filler allows small production runs of aseptic SteriGLAND™ bags. It can fill 2-to-20-liter aseptic bags at up to (4) four liter bags per minute. It also fills 200-liter bags in drums.



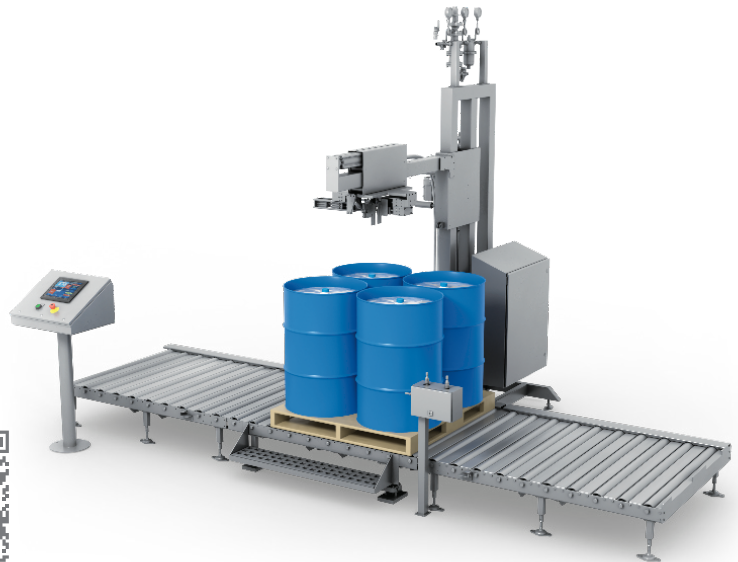
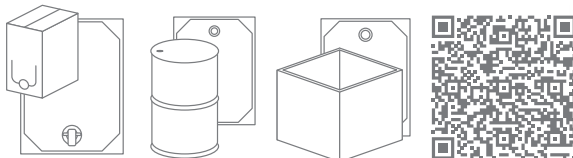
TORR 160

To meet FDA low acid food packing requirements for shelf stable distribution, TORR offers the SteriGLAND™ BIB filling system that provides fills up to log 4 challenge level. Check out our low acid offering detailed on our website.



TORR 260

A single head bin and drum filler suitable for aseptic bags from 2 - to 1,600 liters. The fill head moves in 3-axis to allow filling of 4 drums on a pallet or a single bulk bin. It is available in a twin head configuration to provide continuous flow of product from a processor or Aseptic tank. Heavy duty powered roller conveyors can be custom built to suit material handling requirements. Single head fills up to (5) 1000-liter bins per hour.



SteriGLAND™

ASEPTIC FILLERS

Membraned Fill Gland vs. Friction Fit Cap

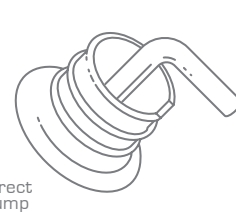
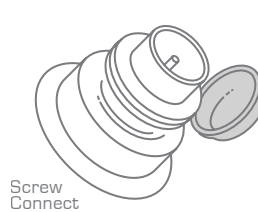
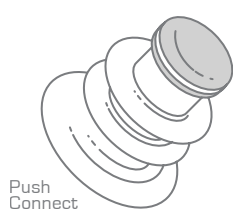
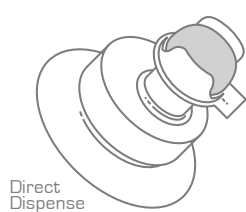
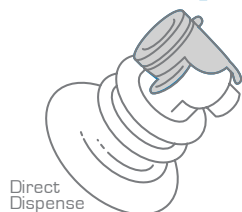


Closed Product Transfer Into Bag No Open Bag, No Need for Enclosed Fill Chamber	✓	✗
295°F Steam Sterilized Fill Cycle	✓	✗
Hermetic Heat Seal Upon Closure	✓	✗
Eliminate Product Splash Trapped in Recapping Process	✓	✗
No Need for Chemical Sterilization	✓	✗

Membraned fill glands are superior to capped glands for filling aseptic products.

The SteriGLAND™ bag filling system is a sterility assured aseptic packing and dispensing solution for drums, totes, food service and retail BIB packs. TORR offers the SteriGLAND™ 32mm gland assembled in the USA.

The Dispense Fitments



Products filled using the SteriGLAND™ system can be shipped shelf stable, unrefrigerated to the end user because the bag is hermetically sealed, and product is sterile.

A downside of the aseptic sealed bag system to date has been the limited options for dispensing directly from the bag.

TORR now offers a solution!

An innovative range of dispense fitments developed by TORR called SteriTAP™, are compatible with the 32mm fill glands that are attached to the bag gland on our automatic aseptic bag fillers.

The dispense fitments attach to the fill gland after the bag is filled on the automatic filler. All the dispense fitments have a pierce-at-first-use capability. The first time the consumer opens the pack to dispense product, they actuate the piercer that breaks the lower membrane on the gland. The shelf stable aseptic pack remains sealed during distribution until the first use.

SteriTAP™

DISPENSE FITMENTS

TORR's Aseptic Filling Process

1. Clamping the fill gland to the fill valve. Gland stays clamped throughout the process.
2. Sterilizing the fill valve opening and the top membrane of every bag gland with steam for 2 seconds at 298F. An FDA log 4 reduction.
3. Opening the top membrane on the gland with the cutter on the tip of the fill valve piston.
4. Opening the fill valve by retracting the fill piston, filling the irradiated bag with sterile solution and then closing the fill valve.
5. Steam cleaning residual product from the partly sealed lower membrane on the gland and heat sealing closed the lower membrane to the bottom of the gland.

TORR's Aseptic Product Filling Customers...



For a quote or more info please contact:

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