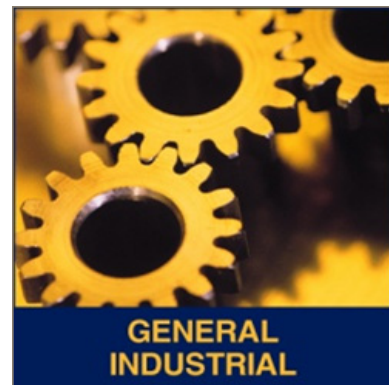


# Parker Ship-N-Seal Plug

Engineered Solutions

Issue 12



## Problem:

Many subassemblies are shipped with open ports for connection in customer assembly operations. To avoid spillage or contamination while in transit, these connection ports are often sealed with plastic or rubber shipping plugs. Traditional shipping plugs must be removed at the final assembly operation before final connections can be made. These plugs are frequently discarded as the cost to return and reuse them exceeds their original cost. Labor to remove and dispose of the plugs, longer assembly cycle times, and their negative impact on the environment all increase the total cost of using a traditional shipping plug far beyond the original purchase price.



Reduced thickness in the membrane creates controlled rupture of the Parker Ship-N-Seal plug during final assembly



## Solution:

Parker Engineered Seals Division designed the innovative Parker Ship-N-Seal plug which functions as both a shipping plug and sealing grommet in the final application. By including a thin integral membrane across the face of the plug, contaminants are kept out and fluids are retained. During transit or shipping, thin perforations allow the membrane to be pierced without removing the plug. Upon final assembly, the mating component forms a radial seal against the Parker Ship-N-Seal plug. Use of a single plug for shipping through end use provides many benefits including:

- Reduced total system cost
- Reduced labor content and assembly cycle time
- Elimination of potential contamination from shipping plugs damaged during removal
- Reduced opportunities for assembly errors
- Environmentally friendly - eliminates discarded shipping plugs

**Applications:** Many subassemblies which utilize shipping plugs can benefit from Parker Ship-N-Seal plugs including pump connections, fluid level check tubes, fill tubes, etc. Parker Ship-N-Seal plugs can also have integrated or assembled guide tubes or metal inserts for improved retention in assembly.

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Contact Parker Engineered Seals Division and ask for a product engineer to review your application and see what opportunities are waiting to be discovered!



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