



## BLOW-FILL-SEAL TECHNOLOGY

Complex formulations. Advanced aseptic filling. Reliably supplied.

With over 30 years of experience in providing blow-fill-seal solutions, from development through commercial-scale manufacture, we can deliver higher quality, efficiency, and safety than glass options.

*Our Blow-Fill-Seal manufacturing facility is conveniently-located in Woodstock, IL, just over 40 miles from Chicago O'Hare (ORD) International Airport.*

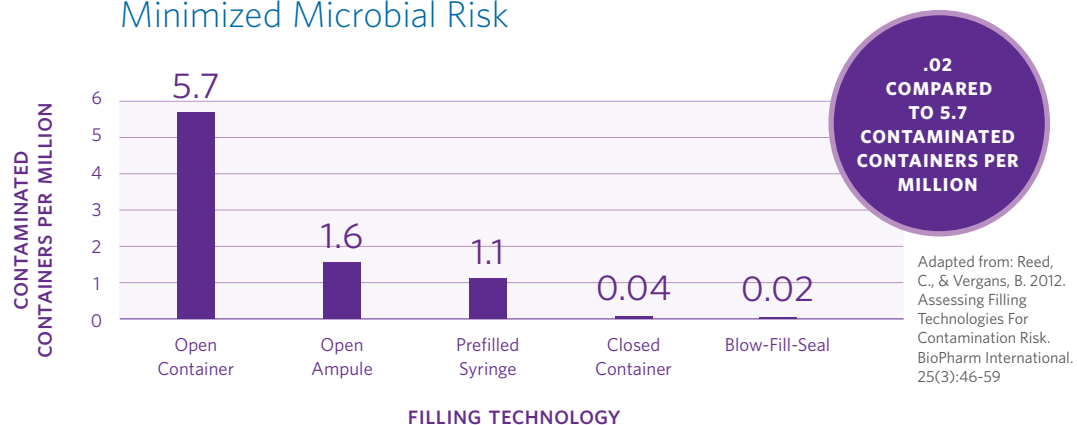
### COMPLEX PRODUCTS & SOLUTIONS

- Proven expertise in complex emulsions, suspensions and biologics
- Specialized in handling challenging formulations
- Turn-key standard container options or tailored designs and insertion technologies
- Solutions for temperature, light and oxygen-sensitive products, as well as highly potent APIs

### FLEXIBILITY & CAPACITY

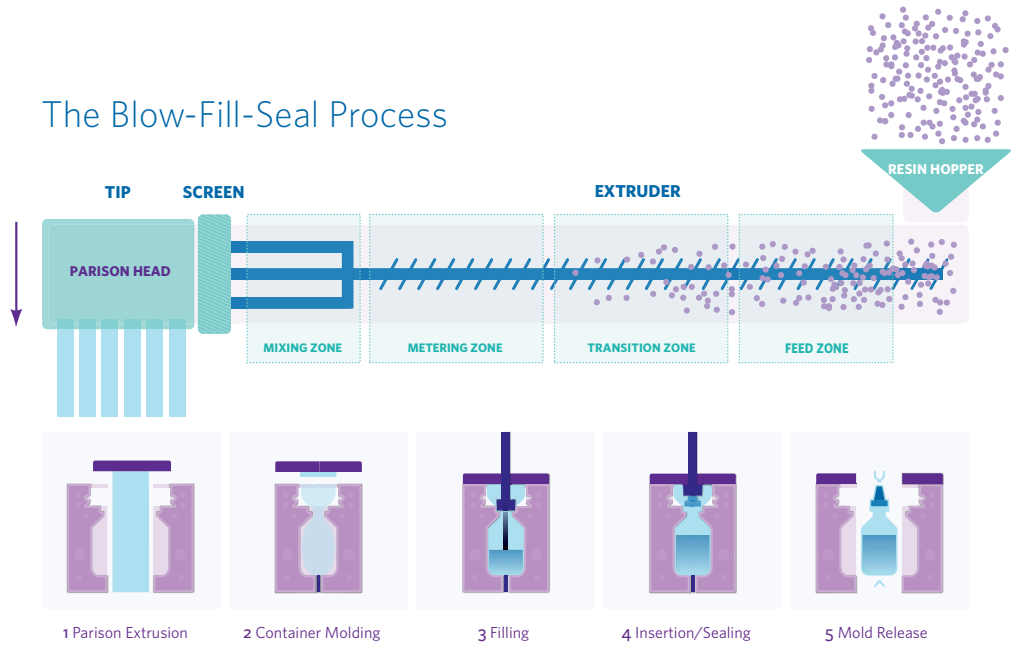
- Serving any customer size (small and virtual companies through large pharma and biotech)
- Batch sizes from 5L to 2,000L
- Fill volumes from 0.25mL to 125mL
- >30 machines for clinical to commercial runs
- Dedicated scale-up machinery
- Single-dose or multi-dose
- Sterile and non-sterile
- Various clear and tinted resin options (LDPE, HDPE, PP)

## Minimized Microbial Risk



IN 12-15 SECONDS THE CONTAINER IS FORMED & PRODUCT IS FILLED IN GRADE A/CLASS 100 CONDITIONS

## The Blow-Fill-Seal Process



## Highest Quality. Reduced Risk. Improved Results.

**HIGHEST QUALITY STANDARDS** Recognized by the USP as an advanced aseptic process for forming, filling and sealing containers. Our highly-automated blow-fill-seal process helps to minimize risk at optimal manufacturing efficiency.



## Catalent Expertise at Work

**CHALLENGE** A midsize pharmaceutical company approached Catalent for the development of a highly viscous, complex suspension to fill in a unit dose application for ophthalmic route of administration.

**SOLUTION** Catalent successfully designed and developed a unique customized filling system to meet this request.

**RESULT** Catalent's solution enabled the customer to meet their milestones on time and proceed to the clinic. Catalent is now a preferred supplier with this customer, with ongoing development and commercial projects.

We offer a full spectrum of global integrated services for every stage of your product lifecycle.

more products.  
better treatments.  
reliably supplied.™

Discover more solutions at [catalent.com](http://catalent.com)  
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