

# LIFE SCIENCE PRODUCT OVERVIEW





a DESTACO company

**CRL has been a trusted manufacturer of remote handling, transfer, and containment solutions for 75 years.**

**A safe and secure working environment for your operators and your products is of the utmost importance in the Life Science industry.**

Since 1945, CRL has been developing innovative technologies for the safe and efficient handling of hazardous and sterile materials. Our solutions span the globe; providing safer working environments and higher quality isolated environments for aseptic and potent processing by reducing the risk of product contamination and operator exposure.

Every application has unique requirements to ensure the quality and safety of these critical environments. CRL solutions offer flexibility and customization to provide the best solution possible for safe and confident handling – for every application need.

[crlsolutions.com](http://crlsolutions.com)





CRL Transfer Systems utilize proven technology to safely transfer materials in or out of sterile environments.

## ALPHA ASSEMBLY

CRL Transfer Systems provide safe, contained transfer into or out of isolation; consisting of two main components, the alpha assembly and the beta assembly. The alpha assembly is normally mounted to the cell wall of a contained environment and the beta assembly is mobile and connected to a container, bag, or process component. When the two assemblies are mated, toxic or sterile materials can be rapidly transferred in and out of isolation without breaking containment, while maintaining the safety of the product and/or operators.



### CLEAN RAPID TRANSFER PORTS (CRTP)

For clean, rapid and repeatable transfer into or out of isolation

- Designed for ease of cleaning and minimized glove issues due to new, improved handle design
- Rapid repeatable transfers without breaking containment
- Mechanical interlocks to prevent improper port operation
- 316L Stainless Steel with multiple door options available

Available in sizes (mm): 105, 190, 270, 350

### AVAILABLE OPTIONS



Polypropylene Door



Stainless Steel Door

# BETA ASSEMBLIES



## STANDARD BETA CONTAINERS

For safe and contained transport or storage of product, components, samples, and waste

- Gas tight design
- Multiple materials, sizes and lengths available



## AUTOCLAVEABLE BETA CONTAINERS

For moist heat sterilization of tools and components to be aseptically transferred into isolation

- 1.5 in. Tri-Clamp vent port for use with with 0.2  $\mu$ m filter and housing
- Available in 316L Stainless Steel and anodized Aluminum
- Stainless Steel perforated baskets available to ease unloading and improve sterilization process



## BETA FLANGE WITH TRI-CLAMP FITTING

For connection of large tanks and process equipment to isolation

- Charging of formulation tanks and reactors
- Discharging from dryers
- Charging of a mill



## BETA BAG FLANGE

For product and component transfer into or out of isolation in potent applications

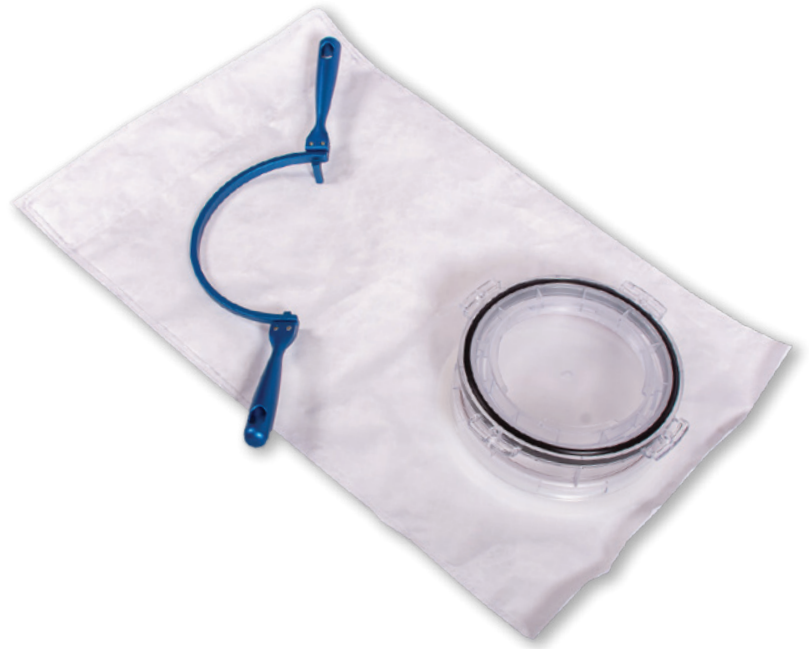
- Beta Bag Flange used with disposable bags
- Safe transfer of products, components or tools into or out of toxic containment



## BETA COUPLERS

For interconnection of isolators or specialty equipment to a fixed alpha flange on another isolator

- Multiple sizes available
- For temporary connection of two process isolators



# SINGLE-USE TECHNOLOGY

## SINGLE-USE BETA BAGS

The CRL Single-Use Beta Bag is a safe, efficient, and cost-effective solution for aseptic production. This single-use technology provides contamination-free transfer of sterile components into isolation or removal of toxic components out of isolation. Used in conjunction with Alpha port systems, sealed containment and sterility of the environment are maintained.

The Single-Use Beta Bag system consists of Tyvek® and high-density polyethylene (HDPE) bag layers connected to a Beta flange which mates the entire assembly to the Alpha port on an isolator. Once filled with components, these bags can be autoclaved and connected for filling line production.

### Tested to be compatible with CRL or DPTE® XS Alpha ports

- Autoclavable and gamma-sterilizable versions available
- Removable, reusable handle system (required for use)
- Inventory stocked to keep supply levels consistently available, eliminating long lead times

Available in sizes (mm): 190



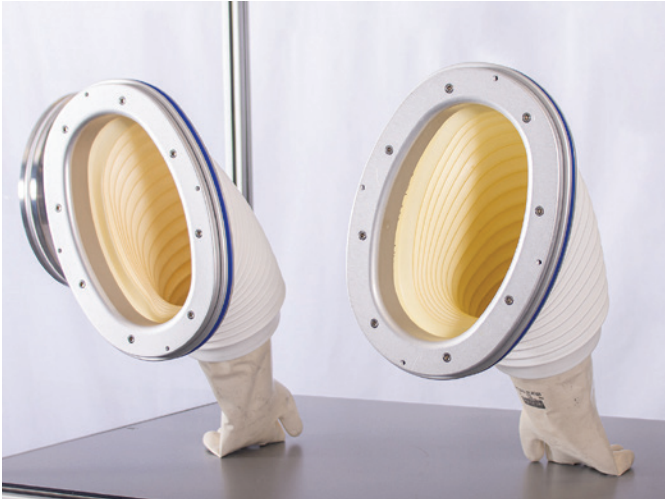




DURABLE™ Accordion Sleeves are a cost-effective alternative to standard long gloves.

# GLOVE PORTS

CRL Glove Port Systems are designed as efficient, cost-effective solutions for maintaining contained conditions during operations.



## FIXED GLOVE PORT

Clean, high quality compression fit glove port

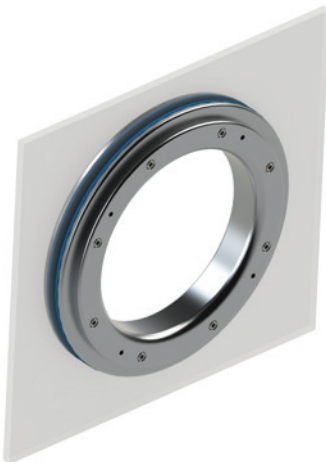
- 316L Stainless Steel and Aluminum versions available
- For use with long gloves or DURABLE™ Glove Sleeve Systems

## DURABLE™ ACCORDION SLEEVE

A DURABLE™ Glove Sleeve System designed to minimize down time and maximize cost savings for life science applications

- Available with push-through wrist cuff ring for safe, fast short glove change or compression fit wrist cuff ring
- Made of polyurethane and CSM for high durability and puncture and chemical resistance

## AVAILABLE OPTIONS



Round



Oval





CRL Telemanipulators allow operators to work with hazardous materials inside hot cells.

PHOTO CREDIT: Lawson Health Research Institute (London, ON)

## TELEMANIPULATORS



### RADIOPHARMA TELEMANIPULATOR

#### For dynamic remote manipulation in small hot cells

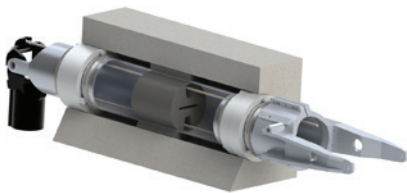
One-piece Model G Telemanipulators are compact, lightweight remote handling solutions designed to allow operators to work remotely in shielded hot cells. These models are ideal for use in small hot cells for a variety of radiopharmaceutical production tasks. They offer a full range of customizable features making it easy to adapt to operator preferences and evolve as needs change over time.

Natural motions of the hands at the command end are reproduced identically at the remote end with minimal effort and high precision. These Command-Remote Manipulators are ideal for dynamic, sensitive, and detailed performance with smooth continuous movement, a wide range of motion, and intuitive ergonomics for tasks such as lifting objects out of transfer containers, opening containers, weighing test materials, or filling and capping vials.

- Sealed and unsealed options available
- Optional radiation shielding thickness and booting available
- Customizable for specific application use

### OPTIONS AND ACCESSORIES

All models are customizable with unique options and accessories to fit your specific application needs. See our Telemanipulator Visual Selection Guide for all available options.



Radiation Shielding and Thru-Tube



Tong/Jaws



Handles



Locks



Booting



Installation/Removal Carts



***Customer Service/Support***

3965 Pepin Avenue  
Red Wing, MN 55066  
Tel: +1-651-385-2142  
Toll Free: +1-800-934-1562  
[info@crlsolutions.com](mailto:info@crlsolutions.com)

***[crlsolutions.com](http://crlsolutions.com)***