



### Cleanroom Pass-Through Selection for Healthcare, Life Sciences, BioTech, and Laboratories

Terra's cleanroom and specialty pass-throughs are designed and customizable for virtually any pharmaceutical, semiconductor, medical device, surgical, or ICU environment. Let's identify a Terra pass-through model for your application, including economical **ValuLine™** models, **BioSafe®** models for ultra-hygienic environments, and **Smart®** models that enable modern electronic features including secured access, automatic doors, HEPA filtration, refrigeration, and more.

**Pass-Through Chambers** can be found in a variety of laboratory, healthcare, and cleanroom environments to facilitate the transfer of materials from one room to another. Importantly, transfer chambers allow this transaction to occur without requiring constant entry and exit from one area to another. Generally, most pass-through chambers include an interlocking chamber mechanism that allows access from only one side of the chamber at a time. Moving on, let's unpack some of the more specific features and product families that are designed for specific applications.



## Terra Pass-Through Family Overview

**ValuLine™ Pass-Through chambers** with automatic mechanical interlocks are suitable for non-sterile applications that do not require controlled air spaces. Chambers are offered in 304 stainless steel and several plastic materials including economical black acrylic, polypropylene for moderate chemical compatibility, and SDPVC for static-sensitive areas.

**General-Use Pass-Through Chambers** are suitable for any general-use application that requires moderate particulate control, but should not be considered suitable for sterile protocols. These configurations include wall-mount or floor-mount versions, and several material options including 304 stainless steel, powder-coated steel, economical clear acrylic, polypropylene, and static-dissipative PVC enclosures.

**CleanSeam™ Pass-Throughs** offer 304 stainless steel chambers with continuous welds, eliminating any intermittently welded gaps that harbor particulate and contamination. Continuous seam welding provides an uninterrupted, single-piece chamber to inhibit the entry or escape of contaminants from contact surfaces.

**CleanMount® CleanSeam™ Pass-Through Chambers** feature a hidden automatic door interlock and easy-to-sterilize 316L stainless steel for aseptic bio-pharma applications. An obstruction-free interior with lipless edges and radius corners supports easy cleaning. Flush-wall mounts allow for a 5-minute CleanMount® installation, but other mounting positions are available including flush-floor, center floor, and center wall.

**Smart® CleanMount® Pass-Throughs** include automatic electronic interlocks with visual and audible notifications, coved radius corners, and a 5-minute CleanMount® install. The double wall construction allows for a hidden circuit board that streamlines the integration of electronic add-ons including LEDs, UV, HEPA/ULPA recirculation, refrigeration, environmental monitoring, data logging, bar code scanning, hands-free door opening, and controlled access interfaces.

**Smart® Recirculating HEPA/ULPA Pass-Throughs** are designed for applications that demand a high degree of sterility assurance. Terra's filtered pass-throughs are configurable with integrated HEPA or ULPA filters that evacuate and scrub the chamber air between door openings. These designs integrate a stainless steel fan filter unit that emits a continuous flow of HEPA/ULPA-filtered air to protect transferred material from particle contamination.

**BioSafe® CleanMount® Pass-Through Chambers** feature 316L stainless steel double wall chambers with concealed interior automatic mechanical interlocks for easy wipe down and cleaning. Autoclave-safe doors and coved radius corners support critical applications in biology, pharmaceuticals, and life sciences.

**Visit TerraUniversal.com** to compare a wide selection of pass-throughs for pharmaceutical, laboratory, life science research, and general applications. Specialists are available to provide support and expertise among many scientific and research pursuits including sterile and non-sterile compounding, moisture/electrically sensitive components, hazardous materials, and fume mitigation.

**Contact a Terra Specialist** or **View Global Distributors** for assistance with purchasing, configuration, or application compliance. For product drawings visit our **Technical Resources Library**

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Terra Universal's Pass-Through chambers provide contamination-free parts transfer into a cleanroom, laboratory or other controlled environment. All Terra Pass-Throughs include UL-rated, CE-marked, leak-tested chambers and components.



	<u><a href="#">*Smart® BioSafe® CleanMount®</a></u>	<u><a href="#">*Smart® CleanMount®</a></u>	<u><a href="#">BioSafe® CleanMount®</a></u>	<u><a href="#">CleanMount® CleanSeam™</a></u>	<u><a href="#">CleanSeam™</a></u>	<u><a href="#">General Use</a></u>	<u><a href="#">ValuLine™</a></u>
Applications	Biopharmaceuticals & Life Sciences	X	X	X	X	X	
	Microbiology & Cell Culture	X	X	X	X		
	USP 797 Sterile	X	X	X	X		
	USP 800 Hazardous	X	X	X			
	CGMP / GLP Aseptic	X	X				
	BSL 1 - 2	X					
	Lab Hospital & Healthcare				X	X	X
	Electronics, Optics, Aerospace		X		X	X	
	Manufacturing & Processing				X	X	X
	General Laboratory				X	X	X
Chamber Interior	Chemistry & Corrosives					X	X
	Tack Welded Design					X	X
	Continuous Seam Welded Design				X		
	Formed Radius Corner Design	X	X	X	X		
	Lipless Interior Floor	X	X	X	X		
	Double Wall Construction	X	X	X	X		
	Isolated Interlock	X	X	X	X		
Chamber Material	304 Stainless Steel	X	X	X	X	X	X
	316 Stainless Steel	X	X	X	X		
	Powder-Coated Steel					X	
	Plastic					X	X
Inter-locks	Automatic Mechanical Interlock			X	X	X	X
	Automatic Electronic Interlock	X	X				
Gaskets & Seals	Polyurethane Gasket, Autoclavable Doors	X		X			
	Mechanically attached Santoprene gasket		X		X	X	
	BioSafe® Hermetic Seal Doors	X		X			
Doors & Latches	Stainless Steel Lift Latches	X	X	X	X	X	
	Locking Latches Option	X	X	X	X	X	
	Lift-Off Hinges, Replaceable Doors	X	X	X	X		
	Door Status LED Display Bar	X	X				
	Service & Open Door Alerts	X	X				
	Available with Fire Rated Doors		X		X	X	X

\* Models with optional add-on capabilities such as recirculating HEPA/ULPA filtration, hands-free automatic door opening, LED lighting, UV-C sanitizing module, ULPA filtered air shower, refrigeration, push button intercom, message panel, load presence sensor, internal video camera, card reader, fingerprint reader, iris scanner, access data logging, and more.