



Transfer Panels

For High Purity Applications

- Applications** Pharmaceutical processes
CIP/SIP routing
Chemical processes
Biotech systems
- Options** Proximity switches
Electropolished ports and jumpers
Bleed caps
Jumper hangers
Pre-piping
- Materials** 304L and 316L stainless steel
AL-6XN® alloy
Hastelloy® C-22®

Ask about documentation options

 [csidesigns.com](https://www.csidesigns.com)

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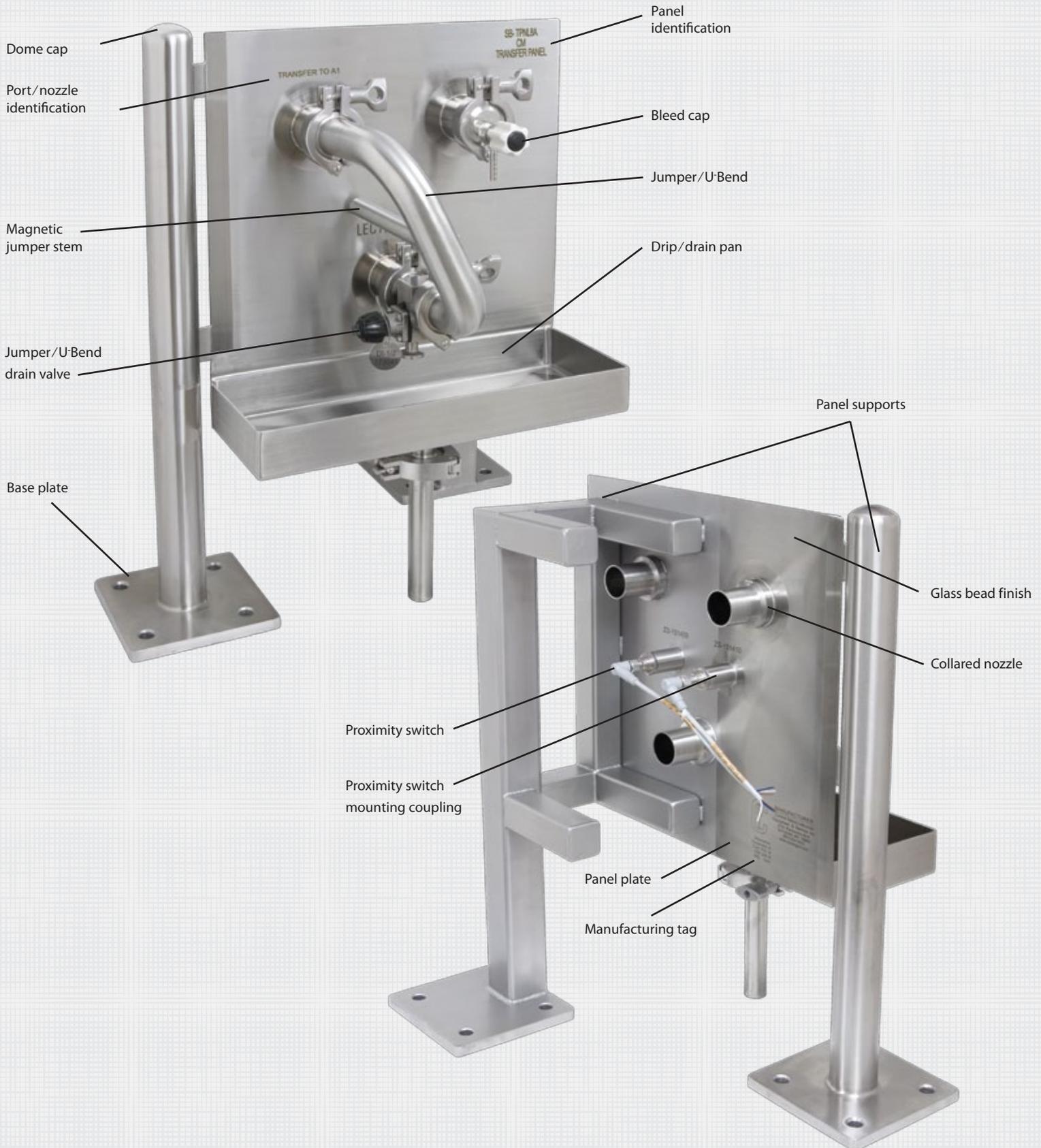
Transfer process fluids through multiple process lines within a piping system without worrying about cross-contamination



CSI

2700 N Partnership Blvd
Springfield, MO 65803

Design



Features and Benefits

Collared nozzle (Patented design)	Protects internal surface finish while the nozzle is seal welded to the panel. This hygienic seal weld eliminates cracks, crevices, and the possibility of product entrapment.
Glass bead finish	Generally applied to the back side of a transfer panel in the grey space/utility area. This finish removes weld discoloration and creates a uniform satin finish for surface aesthetics.
Jumper/U-bend	Connects to panel nozzles and enables product to be transferred from one nozzle to another.
Manufacturing tag	Identifies the transfer panel, customer purchase order, shop job number, and date of manufacture.
Panel identification	Identifies the transfer panel assembly.
Panel plate	Provides structural rigidity to uphold the required ferrule face flatness tolerances on all panel nozzles. Standard plate is ¼" thick.

Options

Base plate	Anchors the panel to the floor – ½" thick for extra structural rigidity, continuously fillet-welded to pipe legs, and fully ground and polished to provide a hygienic finish.
Bleed cap	Enables the operator to bleed off line pressure or drain fluid from the nozzle before removing the port cap, which provides an additional safety precaution. Multiple options and configurations are available (concentric, eccentric, straight drain, 90 degree drain, etc.)
Dome cap	Eliminates a flat surface, preventing fluid and soil buildup on pipe legs.
Drip/drain pan	Collects process fluids that may spill during panel operations. Constructed from 12 gauge stainless steel and continuously fillet welded to the front side of the panel for extra rigidity. These welds are fully ground and polished to provide a hygienic finish.
Jumper/U-Bend drain valve	Drains process fluid, bleeds line pressure, or relieves vacuum from the panel piping after completing the transfer process. Can also be used as a product sample point at the front side of the panel, eliminating the need to remove the jumper assembly. Multiple options and configurations are available.
Magnetic jumper stem	Fully enclosed design seals the magnet inside the proximity stem. This prevents the ferrous material within a magnet from contaminating a clean room environment.
Panel supports	Distribute the weight of the panel to the floor. Choose pipe leg for free-standing panels, featuring polished pipe welded to both sides of the panel. Choose square tube frame for wall-mounted panels, featuring stitch welds to minimize possible plate deflection caused by the welding process.
Port/nozzle identification	Identifies the particular service associated with each panel nozzle. Common types of port tags include Lectroetch, Phenolic, and Pin Stamp. (Lectroetch is shown.)
Proximity switch	Provides an electronic signal to the control system, indicating the ports connected by the jumper/u-bend. Magnetic proximity switches eliminate unnecessary panel penetrations, which would otherwise contribute to entrapment and/or sterility concerns. CSI's standard magnetic proximity switch is ifm efector MGT200. This switch features stainless steel cylindrical housing, UL and CE compliance, 360° LED status indication, and a micro quick-connect for ease of maintenance.
Proximity switch mounting coupling	Welded to the backside of the panel. Mounting couplings are engineered to conceal proximity switch threads, which provides a more hygienic design.



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Documentation

CSI provides a state-of-the-art documentation package

Your turnover package, complete with a table of contents and tabbed sections, includes:

- Material test certificates
- As-built drawings
- Weld logs
- Material inspection reports
- Welder certifications
- Additional market-appropriate documents can be included to support the validation of your process piping system.

Weld coupons can be provided with the package.

Video recordings of boroscope inspections and electronic copies of the turnover package can also be provided upon request.



Measurement Equipment



Video Boroscope



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