TRANSFER PANELS FOR HIGH PURITY APPLICATIONS



ELIMINATE CROSS-CONTAMINATION OF PRODUCT AND CLEANING FLUIDS DURING FLOW DIVERSION

CSI panels come with our patented spool design and distinctive manufacturing method which provide the pharmaceutical industry with a secure, clean, and effective alternative to more costly or less efficient flow diversion methods.

Transfer panels—also called flow diversion panels, flowverters, or swing panels—have been used for decades to provide a secure, clean, and effective method for directing fluid flow during production or cleaning.

Fluid flow is directed through the panel during production or cleaning via jumper/U-bend which creates a physical break, connects the desired process or utility nozzles, and mechanically eliminates any unintentional mixing of fluids or sending them down the wrong line.

MATERIALS

- 304L and 316L stainless steel
- AL-6XN[®] and Hastelloy[®] C-22[®] Super Alloys[™]

APPLICATIONS

- · Pharmaceutical, Biotech, and Chemical industries
- Active Pharmaceutical Ingredients (API)
- Bulk pharmaceuticals
- Processes and products that require BPE compliance
- Finished products
- Chemical processes
- · Liquid source gases
- CIP/SIP routing
- Buffer solutions



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BACK

FEATURES (CONTINUED)

Panel supports distribute the panel weight.

- Square tube frame for wall-mounted panels, featuring stitch welds to minimize possible plate deflection caused by the welding process.
- **Pipe leg panel** supports free-standing panels, polished pipe welded to both sides of the panel.
- 11 Dome cap prevents fluid and soil buildup on pipe legs.
- **Proximity switch mounting couplings** are welded to the backside of the panel to conceal proximity switch threads and to ensure permanent hygienic placement.
- **Proximity switch** indicates ports connected by the jumpers/U-bends.

Magnetic proximity switches eliminate unnecessary panel penetrations that contribute to entrapment.

CSI's standard magnetic proximity switch features stainless steel cylindrical housing, UL and CE compliance, and a micro quick-connect for ease of maintenance.

RFID proximity sensors (not pictured) detect presence of nearby objects, sending a signal that turns off the proximity switch.

They reduce the size of multi-port systems and simplify electricity complexity.

- Collared nozzles/spools protect internal surface finish with hygienic seal welds that eliminate cracks, crevices, and product entrapment. (U.S. Patents 6,254,143 & 6,557,255)
- **Manufacturing tag** identifies the transfer panel assembly, customer purchase order, shop job number, and date of manufacture.
- **Glass bead finish** removes weld discoloration and creates a uniform satin finish for surface aesthetics.

TRANSFER PANES

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DOCUMENTATION

- QA/QC documentation meets installation, operation, and performance qualifications for government regulations.
- Turn Over Package includes binder with material test certificates, as-built drawings, weld logs, material examination reports, welder certifications, and digital copies on a USB flash drive.

AVAILABLE UPON REQUEST

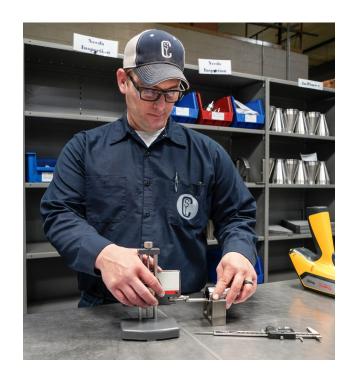
- Additional market-appropriate documents to support the validation of your process piping system
- · Weld coupons
- Video recordings of borescopic examination



MEASUREMENT AND EXAMINATION EQUIPMENT

All transfer panels endure a rigorous quality examination process conducted by trained professionals using only calibrated instruments for optimal efficiency.

- X-ray fluorescence equipment verifies material type for Positive Material Identification (PMI).
- High-resolution videoscopes assist trained examiners in assessing weld compliance with relevant standards.
- Calibrated profilometers verify Ra during surface finish examinations.
- Digital levels verify tube slope to determine drainability and optimize cleanability.





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