



Utility Stations

Applications CIP/SIP routing
Buffer solutions
Liquid source gasses

Materials 304L and 316L stainless steel
AL-6XN® Alloy
Hastelloy® C-22®

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connections for
utilities in a clean-
room environment

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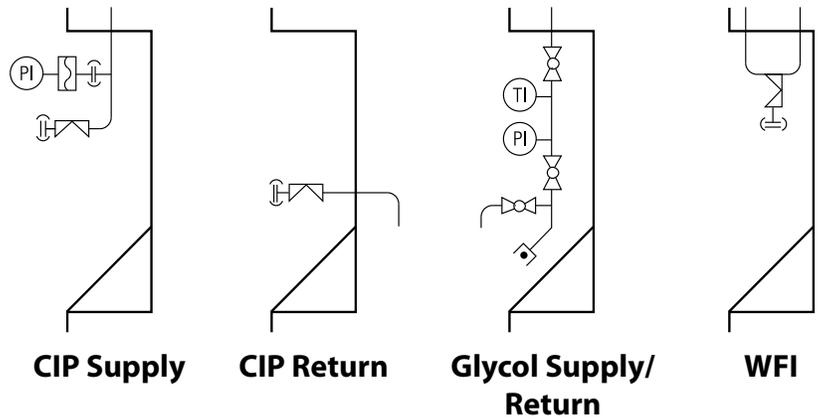
CSI

2700 N Partnership Blvd
Springfield, MO 65803

Panel Line Types

These P&ID diagrams represent typical configurations for each type of service in a recessed panel without a drip pan.

CSI can meet most customer-specified needs concerning line type configurations, panel design, and/or custom components.



Design Features

Panel Structure

Flush mount	Fig. 1
Recessed	Fig. 2, 3, 4

Panel Drainage

No drainage	Fig. 1
Sloped bottom*	Fig. 3
Drip pan	Fig. 4

*Not an option with flush mount panel

Panel Mounting

Wall sleeve**	Fig. 1
Wall clips	Fig. 3, 4
Removable legs with base plates	Fig. 4

**Not an option with recessed panel



Fig. 1

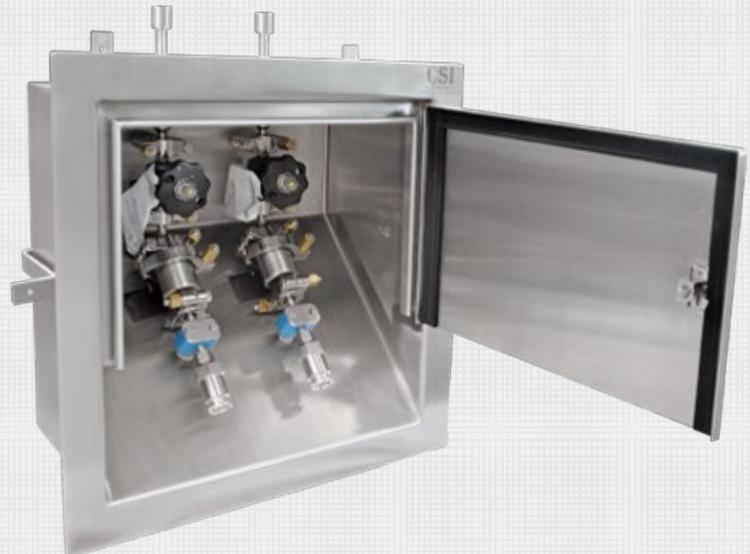
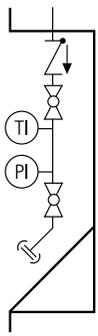
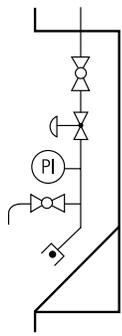


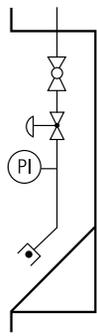
Fig. 3



Process Water



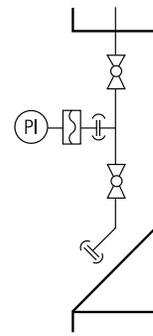
Gas/Air Supply



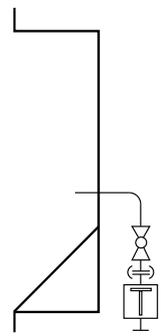
Vacuum



Waste



Steam



Condensate



Fig. 2

Panel Door

Open front/No door	Fig. 1, 4
Full door with latch*	Fig. 2
Access door	Fig. 2
Partial door with latch*	Fig. 3

*Not an option with flush mount panel

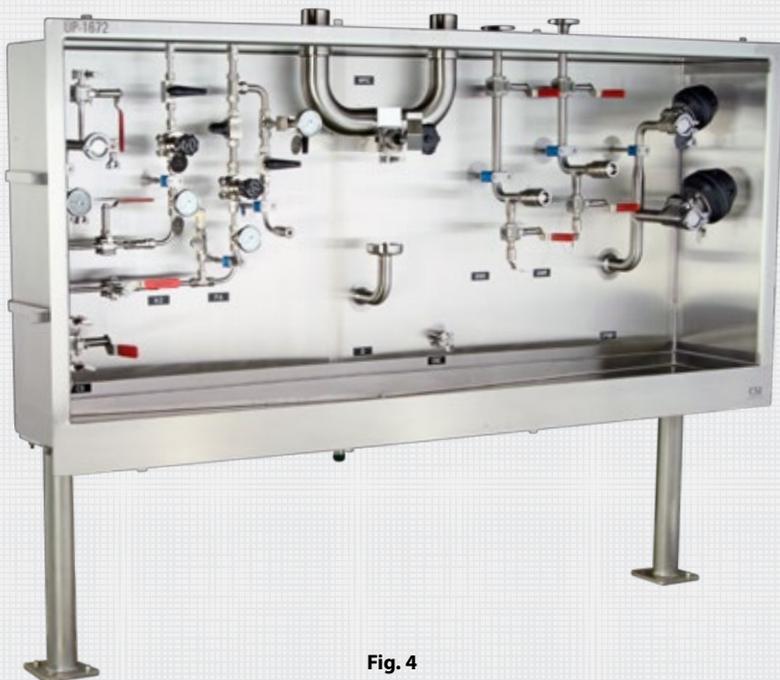


Fig. 4

Tagging

TYPE	OPTIONS
Panel	Phenolic, Electroetch
Line type	Phenolic, Electroetch
Instrument	Phenolic, Stainless steel

Utility Stations

Documentation

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

Your turnover package, complete with 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 test 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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