

# Reduce your start-up time to full capacity with effective, factory-trained, onsite resources.

- Safe and timely start-ups by utilizing on-site control valve expertise
- Proven planning processes and procedures help you minimize your risk
- Eliminate potential delays and associated costs with “sacrificial” trim for hydro and flushing
- Rest easy with skilled valve installation, calibration and configuration
- Planning and implementation of a proven start-up and commissioning plan
- Maintain traceability with comprehensive as built documentation



## Startup & Commissioning

There's a lot riding on your ability to get your plant or process up and running on time and within budget during the start-up and commissioning stage of its lifecycle. Every hour past the start-up deadline means lost revenue and possible penalties.

Emerson's Instrument & Valve Services can assist you in the planning and implementation of a successful start-up and commissioning process that allows you to better identify and reduce potential regulatory, installation, and operational risks. As the industry leading service entity for the world's largest control valve manufacturer, Fisher, Instrument & Valve Services has the resources, technical expertise, and experience to ensure your installed process control equipment matches design requirements and operates efficiently within your plant.

Our extensive experience gives us an unparalleled understanding of the complexities involved with start-up and commissioning. Our services are tailored to meet your plant or process needs as well as designed to help you to control costs and maintain schedule. That's why our certified technicians follow a Quality Management System of clearly defined and documented procedures with consistent, hard-copy checklists of completed tasks to eliminate guesswork when commissioning new and reconstructed plants and processes.

Even if your start-up is on schedule and within budget, your ultimate success depends upon the craftsmanship and quality of work completed. Instrument & Valve Services employs specialized expertise and quality management skills as we pour over the hundreds of details that - if left undone - could jeopardize your results. Our certified technicians recognize the vital importance of a strong quality, health, safety, and environmental (QHSE) focus while in your plant. Start-up and commissioning activities are performed using vetted safety protocols to help maintain a zero Total Recordable Incident Rate (TRIR) throughout the project. Our specialists employ high safety standards to ensure that assets and personnel are protected, so your start-up can be a complete success.



## Reduce Risk

Critical control valve start-up requires additional attention to perform flawlessly, with tight shut-off, therefore we offer a special set of “hydro-flush trim” during the commissioning of new processes and plants. This special flushing trim consists of “sacrificial” parts that allow the flushing fluid and any solid particulates in the system to pass freely through the valve body. This trim set protects the valve seating and gasket surfaces from damage during start-up while saving you the potential additional costs of another set of production trim.

Once the initial system flush is complete. We disassemble the valve and remove the “hydro-flush trim,” and conduct a thorough internal inspection before installing the final production trim. After the reassembly, we check and confirm “factory as built” quality, performance, and reliability of your Fisher control valves by performing our preventative and predictive diagnostic tests:

- Dynamic error
- Step response
- Travel
- Friction
- Seat load
- Trim condition
- Stroking speed

We also review valve manufacturing specifications, check the serial card for assembly configuration, and verify “As Built” factory diagnostic bench set. In addition, we evaluate all critical valve components such as tubing and linkages for any sign of external damage and ensure proper mounting of the valve. After the fine tuning and final calibration, we issue comprehensive “As Built” documentation and an exit report to include all findings from these crucial steps for starting up and commissioning in critical applications.

Whether you’re starting up and commissioning a new plant or just bringing a unit back on-line from a turnaround or outage, Instrument & Valve Services assists you with ensuring your sophisticated production and processing equipment is ready to operate and running optimally when you begin your process. To get the most out of your valves and prevent unnecessary downtime, pre-scheduling regular maintenance will help ensure calibration and proper configuration optimizing reliability and performance. After your start-up is complete, our experts discuss plant requirements and work with your operations personnel to help create a proactive maintenance plan promoting asset lifecycle management for maximum uptime and throughput.

To learn more about how to benefit from our expertise, contact your Emerson local business partner to learn more about start-up and commissioning from Instrument & Valve Services.



Scan or click the QR code for more information about Instrument & Valve Services' startup and commissioning capabilities. [www.emersonprocess.com/commissioning](http://www.emersonprocess.com/commissioning)



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