



# Anti-surge and compressor recycle valves

A complete solution from IMI Critical Engineering

## Protecting your compressor. Optimizing production.

The performance of your anti-surge valve is critical to the performance of your compressor – and therefore your plant. To achieve the ideal balance between efficient production and a maintained compressor, all the components of your compressor recycle valve need to work together flawlessly.

IMI Critical Engineering offers an integrated solution composed of our own DRAG® Control Valves with SC/V actuators and smart high performance positioners, such as our FasTrak or QuickTrak™ controllers. Combined and tested at our own factory, the individual parts of our advanced solution continually interact to ensure the best possible performance for your system – at start-up and during operation. The result is improved overall performance and reduction of your carbon footprint due to fewer cycle trips in your system. Plus, a reduction in maintenance costs, fewer failures and less downtime. Together, this contributes to a better return on investment from your compressor.

## Enhancing your compression system through co-acting components

With an IMI Critical Engineering anti-surge valve, the IMI STI Positioner/Controller offers the fastest and most accurate response to the compressor control command – giving you optimal control over your compressor system. The actuator then responds promptly and accurately, ensuring that – when needed – there is the optimal flow through the valve.

### QuickTrak™ Controller

Featuring the latest pneumatic digital valve control technology, our QuickTrak™ system is designed to meet the needs of today's most demanding applications. Perfectly integrated with the SC/V actuator, it provides fast and highly accurate valve control.

### FasTrak Controller

Another exceptionally precise digital-pneumatic valve controller. FasTrak reacts to changing conditions within the valve – preventing issues and supporting predictive maintenance.

### STI SC/V Actuator

Thanks to our special piston design, this actuator grants smooth and precise valve operation with little or no need for maintenance throughout its operating life. With the ability to manage high dynamic forces, the actuator is ideal for tough jobs like turbine bypass, desuperheaters, compressors and more.

### DRAG® Control Valve

Our multi-stage, multi-path DRAG® design directs fluid through a highly resistant tortuous path to incrementally reduce the differential pressure. This limits velocity head at the trim which eliminates the risk of vibration, noise and erosion.



## Key benefits:

- No process interruption due to a surge event
- No risk of repeatable surge events, which can lead to compressor trip
- Faster start-ups
- No waste of gas/energy – ensuring the lowest possible emission levels
- Extended life cycle for your compressor and its critical components
- Significant savings on energy costs and maintenance
- Reduced carbon footprint

## Tailored to your system

Our fully-integrated solution includes reliable instrumentation and solenoids engineered to your specific needs, enabling the best performance for your system. It also comes with a dedicated diagnostic system for anti-surge applications and a packing degradation monitoring system.

## Get in touch

We've been driving valve innovation for over 100 years. Talk to us about how our control valve solution can help you to get the best from your compressor.

Use the contact details below.  
Or scan the QR code to visit:  
[imi-critical.com/global-contacts](http://imi-critical.com/global-contacts)



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