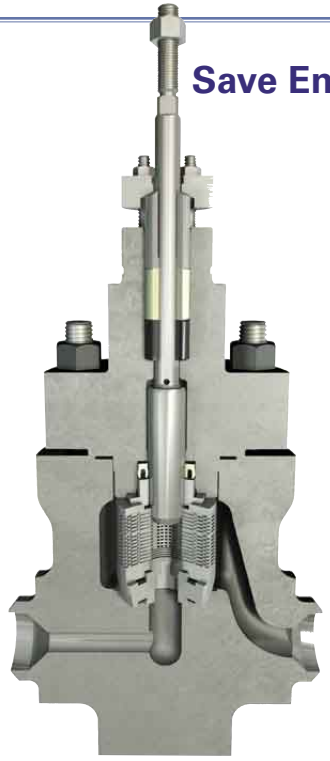
## Save Energy



### CCI DRAG® 100DSV for Attemperator Spraywater Control

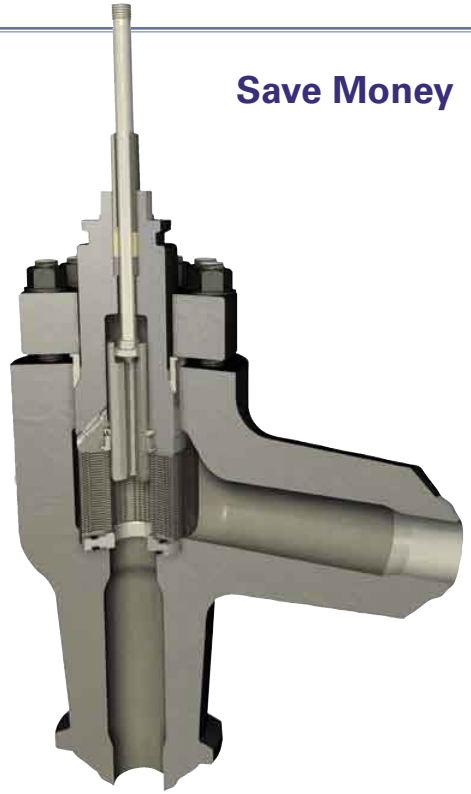
**Features**

- DRAG® disk stack control element
- Repeatable Class V shutoff
- Equal percentage trim characteristic
- Quick change trim
- Angle and globe configuration

**Benefits**

- Precise low end temperature control
- Fuel cost savings
- Easy maintenance
- Heat rate improvement
- Repeatable and reliable shutoff
- Maintenance cycle reduction
- Erosion and cavitation elimination

## Save Money



### CCI DRAG® Technology for Boiler Feedpump Recirculation

**Features**

- DRAG® disk stack control element
- Pressurized seat trim
- MSS-SP 61 shutoff
- Snap-acting relay
- Quick change trim
- Angle and globe configuration

**Benefits**

- Eliminate costly and damaging leakage
- Feedpump output increase
- Operating cost reduction
- Erosion and cavitation elimination
- Maintenance cycle reduction
- Reliable pump protection
- Avoid plant shutdowns

## Save Time

### CCI DRAG® Technology for Boiler Feedwater Regulator

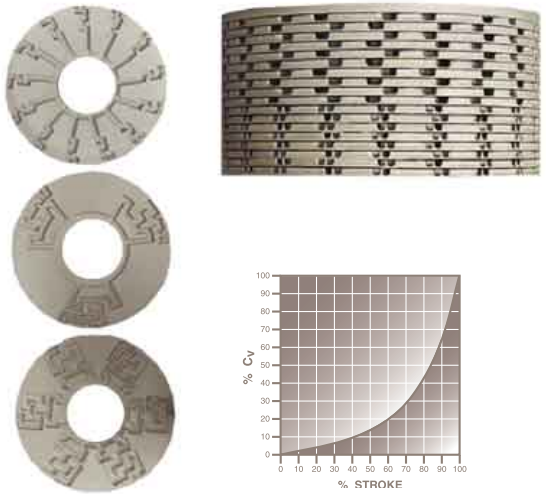
**Features**

- DRAG® disk stack control element
- Equal-percentage trim characteristic
- High rangeability
- Long valve stroke
- Quick change trim
- Angle and globe configuration

**Benefits**

- Combine startup and main valves
- Precise flow control
- Startup time reduction
- Plant efficiency improvement
- Erosion and cavitation elimination
- Maintenance cycle reduction
- System reliability improvement

## CCI quality and performance products






**DRAG® trim equal percentage characteristic for attemperator spray and feedwater regulator for precise flow water control**

**CCI DRAG® valves meet the control valve fluid velocity limits published in the ISA Guide, "Control Valves, Practical Guides for Measurement and Control."**

| Service conditions | Velocity (H20) | |
|---|---|---|
| | ft/s | m/s |
| Continuous service single phase fluids | 100 | 30 |
| Cavitating & multi-phase fluid outlet | 75 | 23 |

**How many pressure reducing stages are required?**

| Delta P | Fluid velocity vs. stages of pressure drop | | Recommended velocity / stages | |
|---|---|---|---|---|
| Psi | 1 stage ft / sec | 3 stages ft / sec | velocity ft / sec | stages |
| 500 | 155 | 105 | 100 | 4 |
| 1400 | 259 | 172 | 100 | 10 |
| 2300 | 331 | 233 | 100 | 12 |
| 4100 | 441 | 302 | 100 | 16 |
| Example: ambient temperature water | | | | |





**Throughout the world, companies rely on CCI to solve their severe service control valve problems. CCI has provided custom solutions for these and other industry applications for more than 80 years.**

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# CCI DRAG® Valves for Fossil Power Plants

- Temperature Control
- Pump Protection
- Feedwater Level Control


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**The Valve Doctor Solution®**