

# AXIAL CHOKES VALVE

**GOODWIN**<sup>®</sup>  
INTERNATIONAL LTD

CT SERIES



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## PRODUCT SUMMARY SHEET

### VALVE TYPE

Axial Choke (Control) Valve

### GOODWIN MODEL

CT Series

### SIZE AND PRESSURE RANGE

- 2" – 72"
- ASME 150-2500
- API 3000-15000

### MATERIALS

Carbon, Low Temp Carbon Steels, Stainless, Duplex, Super Duplex Steels, Low-High Alloys, Nickel Alloys and Titanium Alloys.

### AS AN ALTERNATIVE TO

- Conventional Globe Control/Choke Valves
- Angle Choke Valves
- Rotating Disc Choke Valves

### APPLICATIONS

- Severe service control
- Critical service control
- Anti-surge
- Recycle control
- Pressure let-down
- Noise attenuation
- Anti-cavitation
- Joules-Thomson



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## GOODWIN AXIAL CHOKE VALVES COME EQUIPPED WITH INNOVATIVE FEATURES THAT SET GOODWIN APART FROM ITS COMPETITION.

### EFFECTIVE CONTROL OF FLUID VELOCITIES

Goodwin utilise "torturous path" technology to dissipate and control the high energy, velocity and turbulence within its trim. Consisting of one or more concentric sleeves with specifically aligned holes in each, the trim provides controlled staged pressure reduction.

### SUPERIOR WEAR RESISTANT MATERIALS OF CONSTRUCTION

Goodwin choke valves utilise solid tungsten carbide trim minimising the erosion of critical components, thereby providing long term reliability of performance in severe service.



### STREAMLINED AXIAL FLOW PATH

The streamlined annular flow path avoids turbulence preventing rapid erosion of body and trim parts. The tungsten carbide trim is inherently protected against direct impacts by entrained foreign objects.

### LARGE FLOW AREA

Enables easy handling of solids contributing to reliable performance.

### ACCURATE CONTROL

Made feasible by the fully pressure balanced trim.

### HIGH TURNDOWN

Extensive rangeability provided by the accurate control and inherent high capacity features of the valves.

### BODY MATERIALS

The 3 piece body (2" to 12") permits either cast or forged construction or a combination.

### MULTI-STAGE

Employing labyrinth design, bespoke multi-stage trims designed and manufactured according to each application. Each trim optimised for safe and reliable control of pressure, velocity, erosion, noise and vibration.

### TRIM CHANGE-OUT

One choke valve body can accommodate changing wellhead conditions by changing the trim. With its high rangeability trim, the Goodwin Axial Choke Valve could cover from start to end of life well production scenarios.

### COMPACT INSTALLATION

Low actuation forces results in smaller actuators, combined with a compact valve body design this minimizes the installation footprint.

### RACK-PINION-RACK GEAR TRAIN

Goodwin Axial Control Valves utilise Goodwin's patented Rack-Pinion-Rack gear train mechanism to transpose the linear motion of actuation through 90° into axial motion of the piston.

### ACTUATION OPTIONS

- Manual Operation
- Pneumatic
- Hydraulic
- Electric
- Electro-hydraulic

Goodwin does not currently manufacture actuation. However, its valves will be supplied with full integrated actuation and instrumentation packages according to customer requirements and specifications.

For more information go to:  
[www.goodwinflowcontrol.com](http://www.goodwinflowcontrol.com)

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