

## MODEL TE-4

# ONE PIECE TOP ENTRY IN-LINE REPAIRABLE

**Power Generation** is a monumental operation. Leaky valves = loss of energy, costs, emissions, and risks. Repairing a valve can be more costly than the valve itself. Replacing a valve can be more risky and costly than buying the right valve...

**Cornerstone Valve** has solutions for your most extreme power application demands!



**60 MONTH (5 YEAR)  
ZERO-LEAKAGE  
GUARANTEE**

### Sizes (Full and Reduced Bore)

1/2" to 4" (Larger sizes available upon request)

### Pressure Class

ANSI/ASME CLASS 150 - 4500 (B16.34)

### Temperature

(-) 50° F to (+) 1,350° F (or higher)

### End Connections

Socket Weld & Butt Weld Ends | RF | RTJ |  
ANSI B16.5 | ANSI B16.11

### Leakage

ZERO LEAKAGE: Type-tested achieving zero bubbles; API 622 / API 641 & ISO 15848 FE

### Materials

ASTM A105, A182 F11, A182 F22, A182 F91  
ASTM A304/304H, 316SS,  
410SS, INC 718, CHROME CARBIDE,  
HVOF, DUPLEX

### Operation / Automation

Lever/Gear Op, Pneumatic, Hydraulic, Electric



2ND GENERATION | FLOATING BALL | TOP ENTRY



## STANDARD FEATURES

- One-piece, rigid body design for optimal strength. Minimizing leak paths under pipe stresses and 'flexing' in service.
- Metal-to-metal body/bonnet seal: Zero Leakage, "Bubble Tight".
- The valve body can remain welded in line while internal parts are replaced. The process takes ~15 mins.



24-H SUPPORT

**Call (281) 880 8188**

# FEATURES

- Top-Entry, In-Line Repairable through the Bonnet!
- From (-)20° F to (+)1,350° F (Higher Temp. Available)
- 1-Pc Rigid Body design holds under pipe stresses
- "Bonnet In-Line repairable": No need to remove the valve, move the pipe, or impede on the service line when maintenance is performed, just open the top.
- Proprietary metal-to-metal, pressure energized Bonnet Seal with 'self alignment' memory-seal
- LESS RISK in Repair: No cutting/torching, no pipe spreading, no welding, no PWHT, fewer site hours
- LOWER COST of Ownership: Less downtime, Fewer Technician hours, trim kits on hand
- 15 MINUTE REPAIR of a factory trim kit
- NO SPECIAL TOOLING just basic hand tools and the seat retraction pins included with our trim kits = simple, quick, and minimal error
- Quick, quarter-turn operation mitigates damage from high velocities across seating surfaces
- Available with ISO5211 Brackets + Couplings or removable levers for a variety of automation mounts

## Power Generation & Others- Application Scope Installed Base:

- Control Valve Isolation
- Main steam stop/isolation
- Feedwater heater isolation
- Boiler feed pump isolation
- Bottom ash isolation
- Steam trap isolation
- Turbine isolation
- Superheater spray isolation
- Gauge Glass/Instrument isolation
- Pump isolation
- Attemperator Spray isolation
- Bottom Blowdown
- Block Valves after Control Valves
- HRSG Applications
- Hydrogen & Gas Applications
- Throttling and Flow Control\*
- Final Control/Automated Packages
- Zero Emissions Solutions
- Low Temp and High Thermal Range

## OUR VALVES WORK

Cornerstone Valve has been designing, manufacturing, and delivering precision Ball Valves for the Power Generation Market since 1994. Our core competency is providing cutting-edge, In-Line Repairable solutions. With a strong foundation since 1990, Cornerstone Valve established itself as an industry leader, specializing in custom ball valves to meet the most challenging application requirements. Our unwavering customer commitment drives us to deliver exceptional value. As an Employee-owned company, we take personal responsibility for the success of our clients and the reputation we work to maintain.



6D-0164  
6A-0321  
6A PSL 1, 2, 3, 3G  
API 6DSS-0073



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