

# One Piece Top Entry In-Line Repairable Model: TE-4



SEVERE SERVICE ENGINEERING



SECOND GENERATION, FLOATING BALL,  
IN-LINE REPAIRABLE, TOP-ENTRY

Bore Sizes: 5/8" to 4" (Larger sizes available upon request)

Pressure Class: ANSI / ASME 150 - 4500  
B16.34

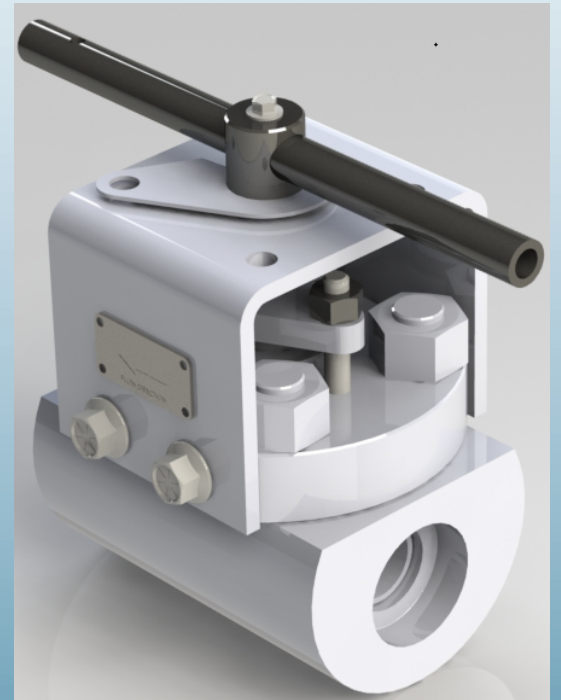
Temperature: (-) 20° F to (+)1,200° F (or higher)

End Connections: Socket Weld & Butt Weld Ends / RF / RTJ / Hub  
End / ANSI B16.5 / ANSI B16.25 / ANSI B16.11

Leakage: ZERO LEAKAGE: Type-tested with high  
pressure Nitrogen gas, achieving zero bubbles

Materials: Carbon Steel, Stainless Steel, Inconel, Chrome  
Molybdenum, Nickel based alloys and other  
exotic alloys not mentioned available upon  
request

Actuation: Manual, Pneumatic, Hydraulic, Electric, etc.



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

## Standard Features

- One-piece rigid body design: for optimal strength, versatility, and minimal leak paths
- Metal-to-metal body/bonnet seal: Zero Leakage, "Bubble Tight"
- "Fits only one way" Lever Handle

***"Genuine in-line repairability: The valve body can remain welded in-line while internal parts are replaced"***

**-Garret Cei,  
Manager of Engineering**

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# Model: TE-4 Second Generation

## Features:

- In-line Repairable, Top-Entry, Floating Design
- From -20F to +1,200F (Higher temperature available)
- Top-Entry design
- Truly In-line repairable: No need to "cut the valve out" of service when maintenance is required (unlike End-Entry uni-body and 3-PC designs)
- Proprietary metal-to-metal, pressure energized, C-Lok Bonnet Seal w/ self-alignment seal memory; eliminating a potential leak path and re-alignment challenges
- 360 degree-lapped eliminating coating transition peaks (eliminate high friction/torques when cycled)
- Modular trim kit allows for simple, deliberate repair of a factory trim-set
- Scalable design for use in larger applications
- Quick, quarter-turn operation mitigates damage from high velocities across seating surfaces (unlike slow opening linear valves)
- Available w/weld pups factory installed - eliminate field welding dissimilar metals in transition areas (ex. F91 to F22)

**Power Generation** – a monumental operation. Leaky valves equate to loss of energy and loss of money. Replacing a valve is often more costly than the valve itself. Cornerstone Valve has solutions for your most extreme utility challenges:

### INDUSTRIES SERVED:

Oil & Gas Production  
Oil & Gas Topside  
Oil & Gas Subsea  
Oil & Gas Cryogenic  
Power Generation  
Refining  
Chemical & Petrochemical  
Pulp & Paper  
Mining  
Aerospace  
Maritime

### CORNERSTONE HAS SOLUTIONS FOR THE FOLLOWING APPLICATION AREAS:

- 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
- Attenuator isolation
- Drains
  - Main boiler Drain
  - Condensate Drain
  - Condenser Drain
  - Main Steam Drain and vent
- Economizer Drain
- Preheat Drain
- Reheat Drain
- Turbine Drain
- Other
  - Bottom Blowdown
  - Economizer Sampling
  - Bypass lines
  - Blowdown Applications
  - Blocking Valves after control valves
  - Steam letdown and control
  - Boiler venting
  - Condensate block and control
  - Soot blower applications
  - Main steam supply



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