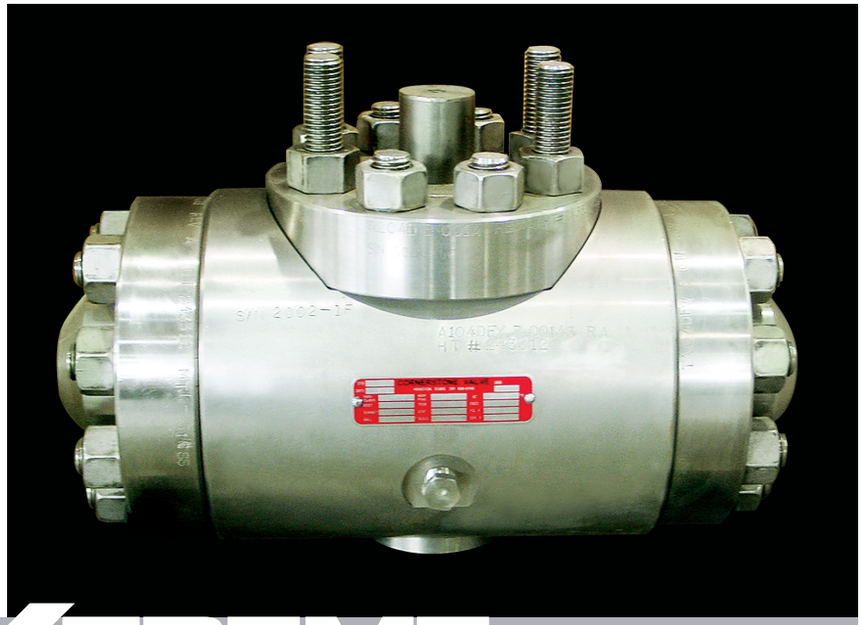
Cornerstone VALVE

SEVERE SERVICE ENGINEERING

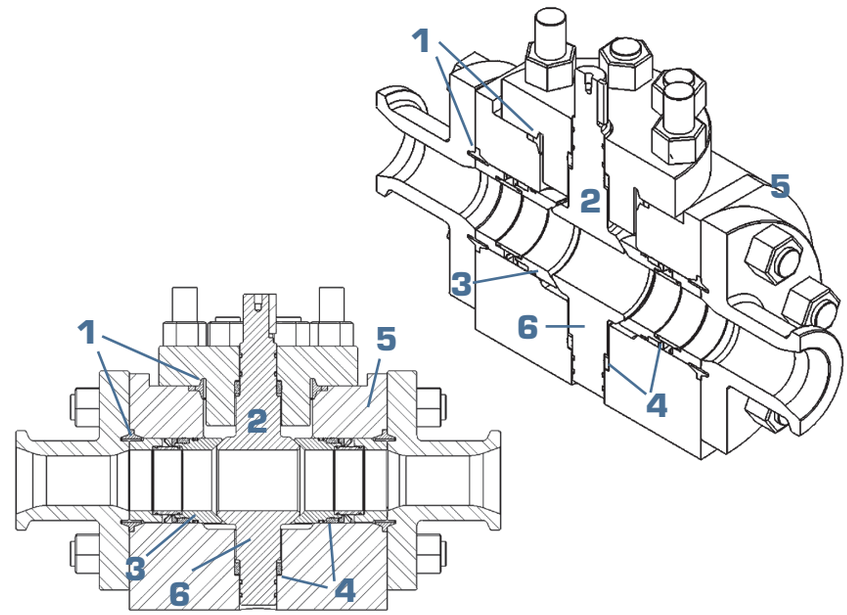


TE-3 Valve: Top Entry three piece *The design makes shorter face-to-face valves possible while maintaining the top entry feature. The center section of TE-3 welded in-line valves can be removed for repair/servicing while leaving weld-end attached to the pipe.*

EXTREME

STANDARD FEATURES:

1. **Metal-to-metal body/bonnet seal:** reliable and fire safe
2. **Solid one-piece ball, stem trunnion design:** Stronger, simpler and more accurate
3. **Pre-loaded, pressure assisted seating, bi-directional sealing:** no lateral ball movement along flow bore. Pre-loading provides uniform torque. Pressure assistance assures a tighter seal
4. **Engineered stem and seat seals**
5. **Rigid bolted body:** optimal strength and versatility
6. **Trunnion bearing supports:** assure alignment and reduce ball/seat torque



PRODUCT SPECIFICATIONS

Size Range	Pressure Class	Temperature Ranges	End Connections	Materials	Actuation
Available in 1/2" thru 10" Full or Reduced Port	• ANSI B16.34 • API 6D-ANSI Class 600 to 4500 • API 6A-Class 2,000 to 15,000	-320F (Cryogenic) to +1500F (High Temperature)	• RF • RTJ • Weld End • Clamp/Hub Connection • Customer Specified	• Carbon Steel • Stainless Steel • Duplex Stainless • Chrome-Molybdenum & other exotic alloys *All available in both cast & forged material*	• Manual • Pneumatic • Hydraulic • Electric *All to customer specifications*

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Cornerstone VALVE

SEVERE SERVICE ENGINEERING

INDUSTRIES SERVED:

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

Severe industry conditions can lead to extreme consequences in the blink of an eye. Harsh industry environments can create plant downtime and increase risks to employee safety. To prevent such disasters, companies around the world turn to the experts at Cornerstone Valve.

Cornerstone's focus on severe-service valves, designed for industry-specific conditions, is legendary. With over 200 years of combined experience in creating valves for brutal conditions, Cornerstone Valve works with its customers to develop valves they can count on – day in and day out.

EXTREME

CORNERSTONE SERVICE:

1. Repair service:

• In-house repair – Call for a Return Material Authorization (RMA) form with instructions for shipping/authorization. Or visit our website at cornerstonevalve.com to quickly download your form.

• On-site repair – our trained and certified field service personnel are ready and available to be transported to your site – onshore or off.

2. Training:

Cornerstone personnel are available to train your staff in the operation and maintenance of valve products.

TE-3 TYPICAL APPLICATION:

- Liquids
- High pressure gas
- Steam
- Petrochemicals
- Polymers

OPTIONS:

- Soft or metal seated
- Firesafe
- Cryogenic
- In-line serviceable
- Material to NACE STANDARDS
- CRA overlays – sealing areas or full wetted surfaces
- Various ball coatings
- Solids proof
- High temperature
- Double piston seats
- Stem & Seat Sealant injection
- High temperature

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