

Bray INTERNATIONAL, Inc.

At Bray, our business is helping our customers with their flow control requirements. Our modular product line of valves, actuators and accessories offer the best compatibility, economy and quality performance in the flow control industry.

Through years of field application experience, research and development Bray has designed products that meet or exceed the stringent requirements of today's flow control industry. We have earned a reputation for excellence by creating products of superior value and quality, providing personalized customer service and emphasizing on-time deliveries. Our success has always been the direct result of our fully integrated range of valve, actuator and control products. Rugged and reliable, our products are engineered to provide years of trouble free service.

Bray manufacturing facilities are certified to ISO 9001 and EU Directives, assuring product quality, precision manufacturing and internal process integrity.

Bray's extensively trained staff is knowledgeable in all aspects of flow control technology and provide personal attention to every customer. To serve you locally, each region maintains a factory certified sales and service network for all Bray International products.

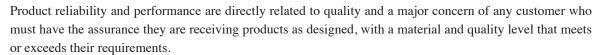


COMMITTED TO QUALITY

Meeting the expectations and needs of our customers while continually improving the effectiveness of our quality management.

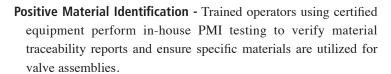


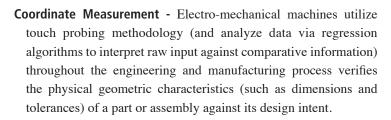
Assuring The Product You Receive Is The Product You Purchased





Material Verification and Traceability - Bray's in-house lab is equipped with fully calibrated equipment in accordance with international and NIST requirements for verifying chemical and physical properties of a wide variety of materials. Supplier's Material Test Report (MTR) and Bray's associated test verification are maintained indefinitely for all valve pressure retaining components.













Bray's in-house quality assurance program also utilize test protocols which could include Magnetic Particle (ASTM E709) or Dye/Liquid Penetrant (ASTM E165) inspection to provide state-of-the art material examination technology/procedures in today's global environment.









TRIPLE OFFSET QUARTER TURN VALVES



Bray Tri Lok

A Division of Bray International, Inc.

BODIES AVAILABLE:

WAFER

LUG

FLANGED

GATE

ASME CLASS & SIZES:

150 3"-48" (80mm - 1200mm)

300 3"-48" (80mm - 1200mm)

600 4" - 24" (100mm - 600mm)

TEMPERATURE RANGE:

-58°F to 842°F (-50°C to 450°C)



R E P L A C E A B L E S E A T / S E A L S Y S T E M

Tri Lok Series valves feature independent field replacement of both the seat and the seal ring. Should service conditions change, seat and seal ring materials may be substituted, without replacing the entire valve. Maintenance, downtime and costs are substantially reduced extending the overall service life of the valve.

Tri Lok's non-rubbing metal-to-metal seal delivers zero leakage with a minimal amount of torque and is inherently firesafe. The standard seat and seal ring material is stainless steel with other materials including Stellite® overlays available. The resiliency of the seal ring ensures uniform peripheral sealing with the seat, achieving full shutoff regardless of flow direction.



S P L I N E D D I S C / S T E M C O N N E C T I O N

Tri Lok's internal disc-to-stem connection eliminates external retention components, such as taper pins or keys. Potential issues associated with external connections, such as corrosion or vibration failure, are eliminated. Additionally, these external connections often require machining or grinding for removal. Disassembly of the Tri Lok disc and stem is as simple as sliding the shaft from the disc.

Tri Lok is the only valve in its class with a splined disc/stem connection. The Tri Lok connection allows axial movement of the disc independent of the stem. Therefore, the seal ring and seat remain in position, unaffected by temperature fluctuations and pressure effects on the stem. This design prevents the typical misalignment problems of rigidly attached discs and stems. The splined connection offers maximum strength. Close tolerance engagement between the disc and stem minimizes hysteresis.



DESIGN SPECIFICATIONS

Tri Lok Valves Meet The Following Standards / Specifications:



BODIES AVAILABLE:

WAFER, LUG, FLANGED, GATE

SIZES AVAILABLE:

3"-48" (80mm - 1200mm)

SEAT & SEAL RING

Fully replaceable seat and seal ring system extends the overall life of every Tri Lok valve minimizing downtime, without the need for costly offsite repairs or total replacement.

STEM

Tri Lok's unique splined disc-to-stem connection minimizes hysteresis, eliminates external connections (and associated hardware) and allows for easy assembly/ disassembly.

Tri Lok features a one piece stem with a blow out prevention ring located above the packing box, outside the pressure boundary, in accordance with international standards.

In accordance with API 609, every stem is indexed providing positive local indication of disc/seal ring location once installed in the piping system.



ASME CLASS:

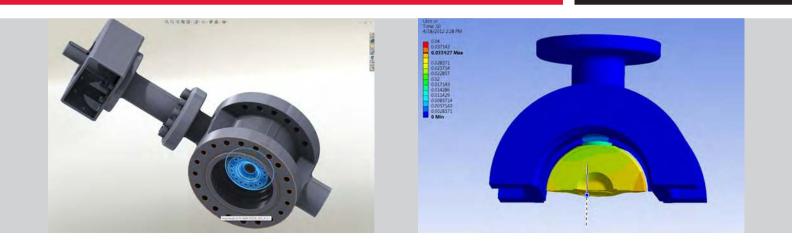
150, 300, 600

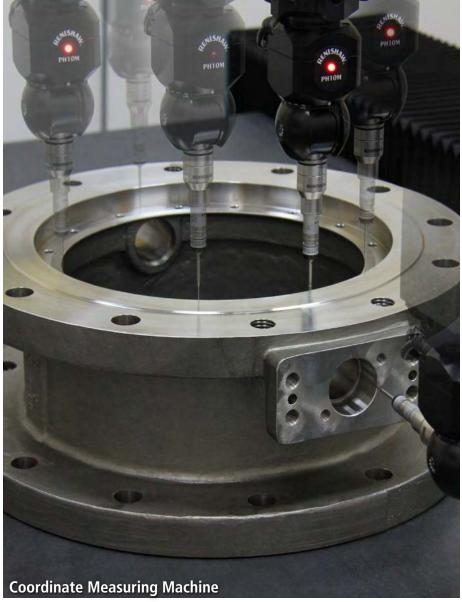
TEMPERATURE RANGE:

-58°F to 842°F (-50°C to 450°C)



ANALYZE





12" ASME 150 ISO Double Flanged - Stainless Steel

DESIGN

Bray's research and development team utilizes the latest technology to design every component for optimal performance through its full pressure/ temperature range.

ANALYZE

Electronic prototypes are subjected to dimension verification as well as pressure and temperature simulations (FEA) in an effort to confirm the design and expose potential weakness in a "virtual" environment. This process ensures the actual product is "fit for purpose" prior to manufacture.

VALIDATE

Individual materials and assemblies are subjected to a rigorous testing protocol prior to production release and during manufacturing. After assembly each valve is actuated and tested prior to shipment.

CERTIFY

Tri Lok products are also performance tested for certification of capabilities such as fire safe, fugitive emissions, flow capacity, shock/vibration resistance and safety integrity (SIL) among others.

CERTIFY









TRIPLE OFFSET TECHNOLOGY APPLICATIONS

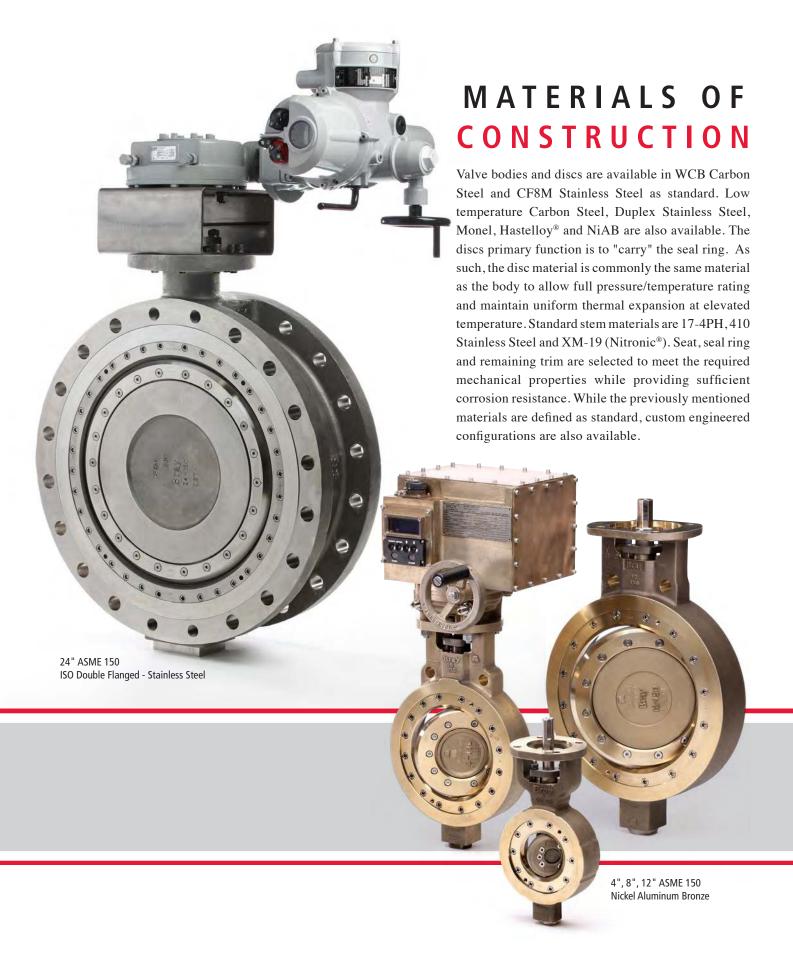
Compared to gate, globe or ball valves of the same size and pressure class, Tri Lok provides space and weight savings while minimizing installation and maintenance costs.

Tri Lok is a premier isolation valve, well suited for operation in light vacuum to high pressure. The standard, non-rubbing, metal-to-metal sealing system is inherently firesafe. Applications requiring absolute zero leakage are ideally suited for triple offset technology.

Side











Service - Testing - Automation - Repair

FOR THE ENTIRE LINE OF BRAY'S FLOW CONTROL SOLUTIONS









Full service facilities are located strategically around the globe to provide the ultimate customer experience. Each location is trained to automate, test and repair TriLok valves. These locations have the tools, knowledge, and inventory to care for the demands of critical service. Thus, TriLok products may be maintained in the region where they are installed to minimize downtime and associated cost.

Tri Lok

A Division of Bray International, Inc.

The Ultimate Critical Service TRIPLE OFFSET VALVE

48" ASME 150 ISO Double Flanged - Carbon Steel

