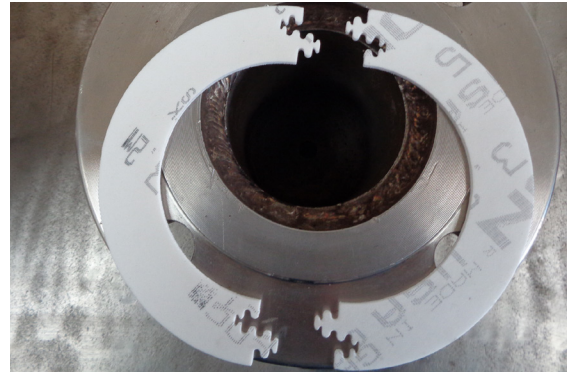


Jointed gasket technology is ideal for handling large-diameter gaskets. Traditionally dovetail construction helps ease the burden of freight logistics; however, this technology poses issues regarding installation and leak prevention.

VSP Technologies designed the Checkmate to address these challenges, ease installation, and provide a leak-free solution.



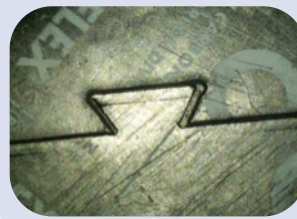
Checkmate vs. Typical Dovetail Joint

VSP Checkmate



- ▶ Tightest sealing sectioned gasket
- ▶ Snap-tight interference fit stays together for ease of assembly
- ▶ Long tortuous seam length ($\approx 2X$ that of standard Dovetail)
- ▶ Seals at the same stress level as one-piece gaskets
- ▶ Joints are virtually invisible
- ▶ CAD design and water jet fabrication

Typical Dovetail Joint



- ▶ Gaps create leak paths
- ▶ Short leak path
- ▶ Joints are visible
- ▶ Higher stress to seal than one-piece gaskets
- ▶ Fabrication dies leave a beveled edge

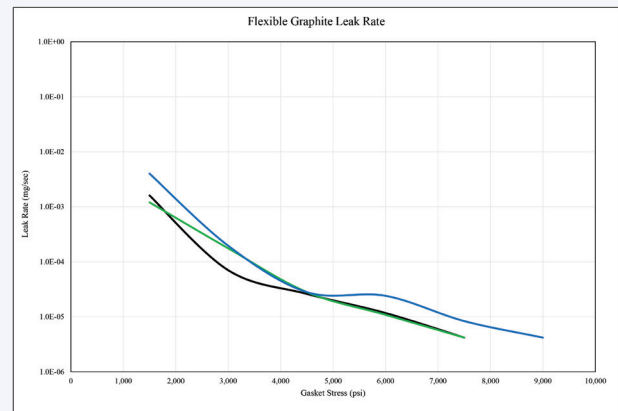
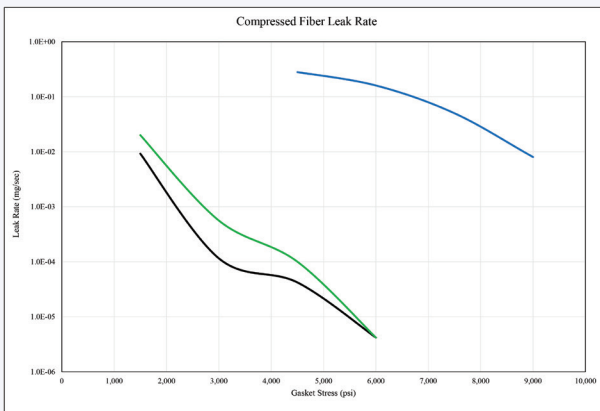
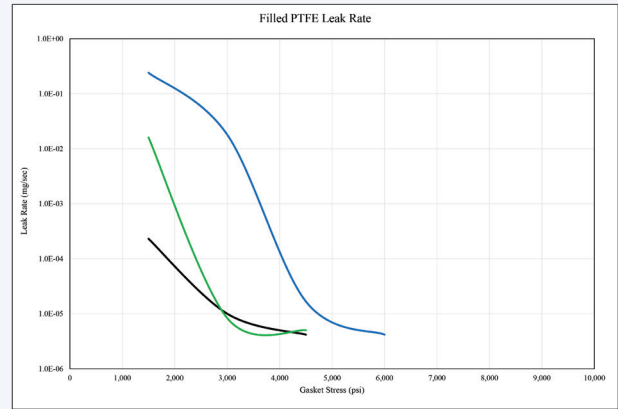
VSP Technologies deploys a team of Engineers and Fluid Sealing Specialists who provide engineered solutions for your unique sealing requirements.

8140 Quality Drive, Prince George, VA 23875
800-334-6013 • vsptechnologies.com

LEAK TEST

100 psig Air Test

- Ring
- Checkmate
- Dovetail



Product Comparison

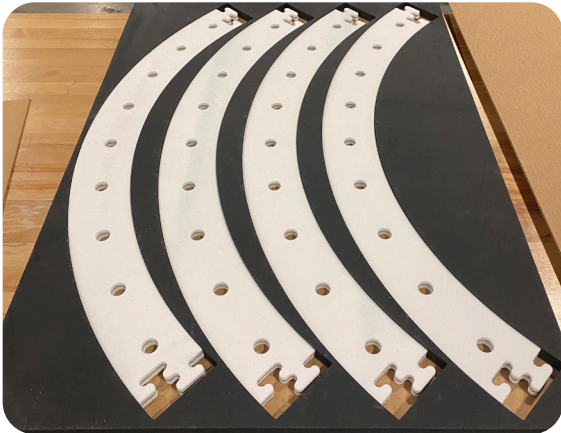
Product Feature	VSP Checkmate	Intralock	Dove-Tail
Tight fit between mating sections	Best	Better	Poor
Accuracy of fabrication	Best	Better	Poor
Long tortuous path created between mating sections	Best	Better	Poor
Engineered, interference fit between sections	Best	Subject to fabrication company and equipment	Poor
Consistent, tight tolerances between mating sections	Best	Subject to fabrication company and equipment	Poor

Intralock™ Joints

VSP developed Intralock technology for instances where Checkmate is not ideal or available

- ▶ Cross sections under 1/2" with fragile materials like flexible graphite
- ▶ Waterjet cutting is not available based on the time constraints required

Intralock cutting technology uses tightened design and cutting capabilities.

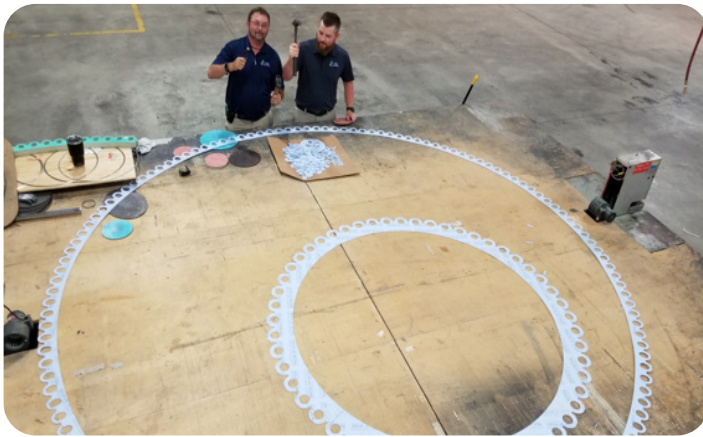


Packaging and Shipping Advantages

Ideal for large diameter gaskets. The scalable packaging allows larger gaskets to fit into a standard cardboard box.

- ▶ Reduces packaging and freight costs
 - ▶ Cardboard vs. wooden crate
 - ▶ UPS vs. Truck
- ▶ Decreases intransit damage
- ▶ Simplifies installation
- ▶ ESG friendly packaging and shipping

Gasket Type	Packaging Type	Shipping Weight (lbs.)	Dimensions (in.)	Packaging Cost	Shipping Method	Shipping Cost
Large one-piece	Wooden crate	200	96 x 96 x 12	\$400	LTL Freight	\$400
Checkmate	Cardboard box	25	60 x 18 x 4	\$20	Standard UPS	\$40



Ship large-diameter gaskets via UPS