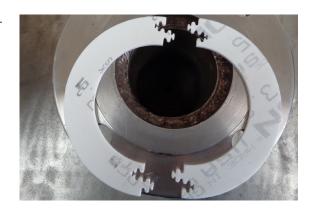


Checkmate[™] Revolutionizing Jointed Gasket Technology

Jointed gasket technology is ideal for handling largediameter 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 (≈2X that of standard Dovetail)
- Seals at the same stress level as onepiece 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 onepiece 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

BUBBLE LEAK TEST

100 psig Air Test

Ring

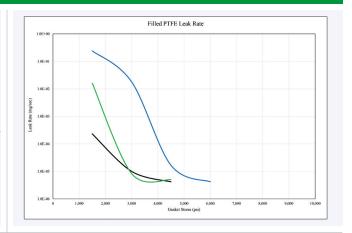
____ Dovetail

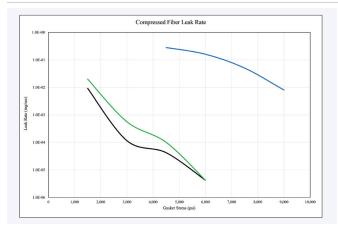
Checkmate

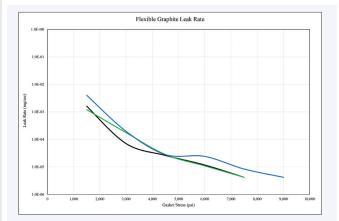
Leak Rate Scale

1 = No Leak 3 = Steady Leak

2 = Periodic Bubble 4 = Gross Leak







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.

COST EFFECTIVE FREIGHT LOGISTICS



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







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