

# Rupture Disk Assemblies

*Rupture disk and overpressure relief devices designed for precision technology and mission critical systems.*



## *Space and Aviation Solutions*



*Rupture disk assemblies  
Conjuntos de discos de ruptura  
Ensembles de disques de rupture*



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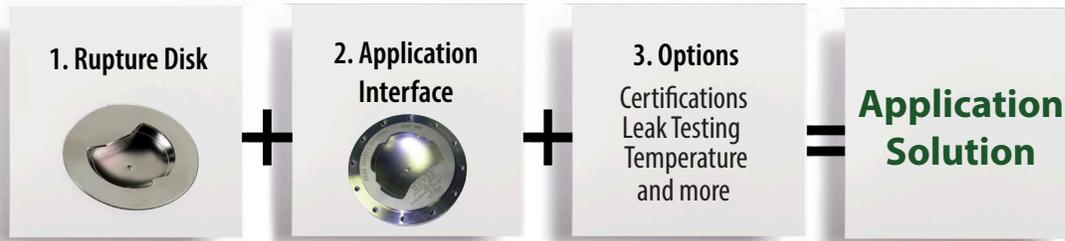


BS&B develops rupture disk device solutions essential for high-performance applications across the Aerospace, Civil Aviation, and other security-focused industries. Our personalized engineering approach ensures that each design meets the specific technical and operational requirements of the application.

BS&B engineered assemblies are built upon a trusted family of rupture disk technologies delivering the required sizes, burst pressures, and performance characteristics for demanding aerospace, aviation, and other high-reliability systems.

Our assemblies integrate both the rupture disk and its housing, designed to operate seamlessly within the user's specified interface to the pressurized equipment. Assemblies may be threaded, flanged, or configured to meet industry-specific connection standards.

Depending on application conditions, such as low mass, and leak tightness, the rupture disk and holder are permanently assembled by BS&B using methods that include welding, bolting, adhesive bonding, or crimping.



## 1. Rupture Disk Type

Rupture Disk		Pressure Range	Size Range
LPS™		5 – 70 psig (0.34 – 4.83 barg)	1" – 12" (25mm – 300mm)
FRB™		15 – 1,000 psig (1 – 67 barg)	1/8" – 1" (3mm – 25mm)
QRB™		350 – 16,000 psig (24 – 1100 barg)	1/4" – 3/4" (6mm – 19mm)
MRB™		1500 – 70,000 psig (100 – 1100 barg)	1/4" – 8" (6mm – 200mm)
XT™		50 – 30,000 psig (3.4 – 2000 barg)	1/4" – 8" (6mm – 200mm)
CT™		150 – 20,000 psig (10 – 1379 barg)	0.17" – 2.25" (4.3 – 57mm)
XTi™ Non-Welded Assembly		2000 – 20,000 psig (137 – 1379 barg)	0.3" – 1" (8mm – 25mm)

## 2. Application Interface

Application Interface	
Threaded	
Flanged	
Welded	
Bolted	
Clamped	
In-Line	
Torqued	

The above rupture disk technologies are the most widely selected disk types. Additional options are available.

### 3. Options

Rapid Prototype Services	Product Performance Testing	Proof Pressure Testing	Advance Life-Cycle Testing
Leak Integrity Testing	Temperature Performance Evaluation	Bespoke Packaging Solutions	Custom Marking Requirements
On-demand Activation	Flame Arresting Mitigation	Breathable Membrane Technology	Burst Alert Sensors
Quality Inspection Reports	Certified Cleanliness	Industry Specific Certifications	Third Party Inspection Services

#### Why choose BS&B Safety Systems

- Proven reliability under extreme conditions (temperature, vibration, shock, vacuum) which are common in aerospace and other mission critical systems.
- Full compliance with international codes (ASME, ISO, PED, AS9100, API, etc) for certified applications.
- Engineering support for optimized design integration
- Innovative market leader
- Global service and support network, enabling around-the-clock access

#### Codes & Standards

BS&B designs and manufactures rupture disk assemblies for aerospace and critical mission systems. BS&B products are manufactured in full compliance with international standards, including the regulatory framework of individual countries or regions such as ITAR (International Traffic in Arms Regulations).

As aerospace and critical infrastructure systems continue to advance, BS&B's pressure-relief solutions are designed to safeguard the most critical of equipment in ever evolving and challenging environments. Count on BS&B Safety Systems for reliable, versatile rupture-disk protection. Contact us today to discuss your pressure-relief solutions and technical requirements

BS&B is uniquely prepared to support your pressure relief requirements.

#### Aviation

- Fuel system protection
- Lithium battery pack protection
- Life support systems
- Ground support equipment protection

#### Space

- Propulsion systems
- Propulsion test stands
- Launch site support systems
- Cryogenic systems
- Life support systems

#### Security & Strategic Mission-Critical Applications

- Ground support system protection
- Personnel safety systems
- Unmanned Aerial Vehicles (UAV'S)
- Rocket propulsion systems
- Actuation and guidance control support

#### Product Performance/ Validation Testing

- Weld Penetration Testing
- Dye Pen Testing
- Burst Pressure Testing
- Backpressure Testing
- Cycle/Fatigue Testing
- Pressure Drop Testing
- Proof Pressure Testing
- Temperature & Altitude Testing in accordance with RTCA/DO-160
- Temperature Variation Testing in accordance with RTCA-DO-160
- Shock & Vibration in accordance with RTCA-DO-160
- Cold Temperature Testing

# PIT™ PROGRAM *(Prototype Introduction Track)*



*The BS&B Prototype Introduction Track combines special skill sets to work in unison with the common goal of giving the customer an excellent prototype order experience.*

- Rapid response Prototype Introduction Track
- Schedule management to assure on time performance
- Focus on your needs
- Ensuring Quality Compliance
- Engineering engagement throughout
- Plan For Success™ approach
- Access to Engineering and Quality from design to delivery

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