Industrial Explosion Protection
User Friendly Application Solutions

www.bsbipd.com
Your global partner for combustible dust safety solutions:

Your Application ... Our Technology ... Your Safety

Passive Explosion Protection Solutions

Explosion Venting

- Certified and tested to different International standards
- Unrestricted and safe evacuation of explosion flame and pressure
- Easy to install and maintain
- Available in a variety of designs and sizes
- Special solutions for buildings and other weak structures
- For outdoor applications or vent duct (limitations)

FlameFree™ Explosion Venting

- Certified and tested to different International standards
- For indoor installations and on outdoor process with restricted evacuation options.
- IQR (Round-Intercepts / Quenches-Retains); flame, pressure and dust
- R-IQ (Rectangle-Intercepts / Quenches-Retains) flame, pressure and dust
- High venting efficiency

Passive Mechanical Isolation Barriers

Ventex® Float Valve

- Open
- Closed

Redex® Flap Valve

- Open
- Closed
Active Explosion Protection Solutions

Explosion Suppression and Chemical Isolation Systems

Example: Type IPD Activated Systems

Suppression and Isolation System

Chemical Isolation: Cannon installed to prevent flames from entering process equipment upstream resulting in a deflagration.

Explosion Suppression: Cannon injects chemical agent into fireball, extinguishing from the inside showing no evidence, externally that a deflagration occurred.

Isolation and Venting System

Pressure Sensor assembly to detect deflagration in its early stage and trigger Cannon(s) before destructive pressure is generated.

Chemical Isolation: Cannon installed to prevent flames from entering process equipment downstream resulting in a deflagration.

Fireball released through explosion vent to the outside, relieving deflagration pressure.

Active Mechanical Isolation Barriers

Redex® Active Isolation Valve

Open

Closed

Type IVE™ Acting Pinch Valve
Spark Detection and Extinguishing Solutions

Typical Applications for BS&B Solutions

- Bucket Elevators
- Dryers and Ovens
- Roller Mills
- Grinders
- Buildings
- Cyclones
- Bag Houses
- Dust Collectors
- Cartridge Filters
- Pneumatic Conveying
- Mills: Pin and Ball
- Silos

Sales and Services Hub locations:

Tulsa, OK USA  
T: +1 918 622 5950  
F: +1 918 665 3904  
E: sales@bsbsystems.com

Minneapolis, MN USA  
T: +1 952 941 0146  
F: +1 952 941 0646  
E: sales@bsbipd.com

Monterrey, Mexico  
T: +011 52 81 1958 0560  
F: +011 52 81 1958 0560 138  
E: sales@bsbsystems.com

Sao Paulo, Brasil  
T: +55 11 2084 4800  
F: +55 11 2021 3801  
E: sales@bsbbrasil.com

Düsseldorf, Germany  
T: +49 211 930550  
F: +49 211 3982171  
E: info@bormann-neupertbsb.de

Manchester, UK  
T: +44 0 161 955 4202  
F: +44 0 161 870 1086  
E: sales@bsbsystems.co.uk

The Netherlands  
T: +31 70 362 2136  
F: +31 70 360 4724  
E: info@bsbsystems.nl

Limerick, Ireland  
T: +353 61 517000  
F: +353 61 309689  
E: info@bsb.ie

Singapore  
T: +65 6513 9780  
F: +65 6484 3711  
E: sales@bsb.com.sg

Seoul, South Korea  
T: +82 2 3782 4592  
F: +82 10 9267 9111  
E: sales@bsbsystems.kr

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