

平板开缝型爆破片 (PF) FLAT SLOTTED LINED RUPTURE DISK (PF TYPE)

平板开缝型爆破片为不预拱的开缝型爆破片。爆破压力由周边透缝（或中心处）及相邻终止孔间构成的减弱结构控制，爆破沿透缝撕裂形成泄放通道。

在生产中，当空气中含有一定量的有机粉尘时，由于机械的摩擦过热、静电、火源等因素，将引起粉尘爆燃，爆炸。该爆破片广泛应用于：煤炭、矿粉、医药、化肥、塑料、粮食、颜料、纤维等有机粉尘的加工行业。

Burst pressure is accurately controlled by the pre-slotted lines and holes connected on the disk, and at its burst pressure, disk opens by tearing along the slots to provide a relief opening.

In production, when the air contains a certain amount of organic dust, it will cause dust explosion, due to mechanical friction overheated, static electricity, fire, and other factors. The disk is widely used in coal, slag, medicine, chemical fertilizer, plastics, food, paint, fiber and other organic dust processing industries.



平板开缝型爆破片 (PF)
Flat Slotted Lined Rupture Disk

主要型式

- 圆板开缝型爆破片 (PF)
- 方板开缝型爆破片 (PFF, 又称爆破窗)

技术特性

- 适用于低压、无背压或真空场合。
- 适用于气、液、粉尘三种介质。
- 最大工作压力可达最小爆破压力的60%。

Types

- Round Flat Slotted Lined Rupture Disk (PF)
- Rectangular Flat Slotted Lined Rupture Disk (PFF, another named rupture panel)

Features

- Suitable for low pressure, non-backpressure, or vacuum conditions.
- Designed for gas, liquid, dust service.
- Maximum operating pressure up to 60% of the minimum burst pressure.

平板开缝型爆破片 (PF) FLAT SLOTTED LINED RUPTURE DISK (PF TYPE)

技术特性表 Specifications

产品名称 TYPE	圆板开缝型爆破片 PF	方板开缝型爆破片 PFF
结构与受载示意 BURST DIRECTION	↑↑↑	↑↑↑
受力状态 LOAD TYPE	拉伸 TENSION	拉伸 TENSION
泄放口径范围 SIZE	25~1000	方形, 300~1600
常温爆破压力范围 BURST PRESSURE RANGES	0.002~1.0	0.002~1.0
背压托架 BACKPRESSURE (VACUUM) SUPPORT	可加 AVAILABLE	可加 AVAILABLE
配用夹持器类型 DISK HOLDER TYPE	PJ或特殊设计 PJ OR SPECIAL DESIGN	特殊设计 SPECIAL DESIGN
动态响应特性 DYNAMIC RESPONSE (sec)	≥ 1/1000	≥ 1/1000
是否适用易燃易爆介质 INFLAMMABLE MEDIA USAGE	适用 SUITABLE	适用 SUITABLE
抗压力疲劳能力 CYCLE RESISTANCE CAPABILITY	一般 ORDINARY	一般 ORDINARY
爆破时有无碎片 FRAGMENTATION ON BURST	有, 但很少 FEW FRAGMENTS	有, 但很少 FEW FRAGMENTS
可否引起撞击火花 SPARK POSSIBILITY	可能性很小 NO	可能性很小 NO
可否与安全阀串联使用 RELIEF VALVE ISOLATION	难 HARD	否 NO
选用时应注意 NOTE	一般适用于低压与超高压工况 SUITABLE FOR LOW OR SUPER- LOW PRESSURE CONDITIONS	一般适用于低压与超高压工况 SUITABLE FOR LOW OR SUPER- LOW PRESSURE CONDITIONS

制造压力范围

平板开缝型爆破片 (PF) 的制造压力范围与正拱开缝型爆破片 (LF) 相同, 详见正拱开缝型爆破片 (LF) 的爆破压力范围表。

Manufacturing Pressure Ranges

The manufacturing pressure ranges of PF type is the same as that of LF type, please check the table of LF type for details.

注意事项

- 表中的数值仅供参考, 若实际值与其有差异, 请与我们公司联系。
- 爆破片的主要材料为奥氏体不锈钢和镍, 密封膜的材料为聚四氟乙烯 (F4)、聚全氟乙丙烯 (F46)、不锈钢 (316L)、镍等。

Notice

- Data above are for reference only, if the actual processing value differs, please contacts us.
- The main materials for PF type disk are austenitic stainless steel and nickel, and standard seal materials are F4, F46, 316L, nickel, etc.