

Classification of Peruvian Class IIB Explosion-Proof Distribution Boxes



Article Overview

Class IIB explosion-proof distribution boxes are designed for environments containing ethylene and similar gases, requiring stricter safety measures than IIA-rated equipment.

Overview of IIB Classification

Class IIB is part of the Group II explosion-proof classification, which applies to surface industrial environments with flammable gases or vapors. Within Group II, gases are subdivided into IIA, IIB, and IIC based on their ignition energy and flammability characteristics. IIB gases, such as ethylene, are more easily ignitable than IIA gases, necessitating higher internal explosion pressure resistance and tighter flameproof designs to prevent flame propagation through small gaps. Equipment rated for IIB can also operate safely in IIA atmospheres, providing flexibility in mixed-gas environments.

Design and Protection Features

Peruvian Class IIB distribution boxes typically feature:

- Flameproof enclosures (Ex d): These enclosures are designed to contain any internal explosion and prevent ignition of the surrounding atmosphere. They are often made from 304 or 316L stainless steel or Q235 steel for durability.
- Specialized hinge structures: These prevent damage to flameproof joints during o...

Article Content

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ATEX chart

The constructional explosion-protection measures ensure the required degree of safety during normal operation, even under severe

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Chapter 16

Depending on the type of protection, explosion-protected equipment for gases, mists and vapours is divided into three explosion

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