

PENDENT TYPE SPRINKLER

Product Overview: The Pendant Type Sprinkler, manufactured and supplied by Palladium Safety Solutions Pvt. Ltd., is a state-of-the-art firefighting device engineered to deliver immediate and reliable water discharge upon detecting high temperatures. Designed for durability and efficiency, it is suitable for a variety of fire safety systems and adheres to stringent international safety standards. With a range of temperature ratings, it meets the specific needs of industrial, residential, and commercial applications.

1. GENERAL DATA :-

Manufacturer	Palladium Safety Solutions Pvt. Ltd.
Trade Mark/Brand	“PALEX”
Type	Pendent Type Sprinkler



2. MATERIAL AND CONSTRUCTION DETAILS :-

Body Material	Carbon Steel (Corrosion-resistant, high strength)
Glass Bulb	Colour-coded for temperature ranges, heat-sensitive for precise activation.
Threading	Standard NPT ½” or R ½” for compatibility with existing fire systems.
Finish	Smooth, corrosion-resistant exterior for longevity and performance.
Sprinkler Head Design	Optimize for uniform water distribution and efficient fire-suppression

3. TECHNICAL SPECIFICATIONS :-

Operating Temperature Range	57°C, 68°C, 79°C, 93°C, 141°C, 182°C, and 260°C
Response Type	Standard and Quick Response options available
Operating Pressure	Designed to operate at 12 bars.
Max Service Pressure	Rated at 175 PSI (12.07 bar)
Thread Size	NPT ½” or R ½”.
Glass Bulb Colours	Orange, Red, Yellow, Green, Blue, Mauve, Black (indicates different temperature ranges)
Water Flow Rate	Engineered for optimal discharge rate under varying pressures.

4. PERFORMANCE SPECIFICATIONS :-

- Hydraulic Pressure – Withstands up to 175 PSI for reliable performance.
- Activation Time – Instant response to high temperatures ensures rapid suppression of flame.
- Water Distribution Pattern – Uniform coverage over the designated area for efficient firefighting.
- Heat Sensitivity – Equipped with a highly sensitive glass bulb that ensures accurate activation when exposed to rising temperatures.

5. FEATURES AND BENEFITS :-

- High Durability – Built with corrosion-resistant Carbon Steel for extended service life.
- Precision Engineering – Accurate temperature activation through color-coded glass bulbs.
- Wide Temperature Range – Multiple temperature settings to suit diverse fire suppression requirements.
- Quick Activation – Fast response time minimizes fire spread and damage.
- Standard Compatibility – Universal NPT or R ½” threading ensures compatibility with most fire safety systems.
- Efficient Design – Even water discharge ensures full area coverage.

6. APPLICATIONS :-

- Residential Buildings – Fire suppression systems for apartments, houses, and villas.
- Commercial Properties – Offices, shopping complexes, and malls.
- Industrial Facilities – Warehouses, factories, and manufacturing units.
- Critical Infrastructure – Data centres, hospitals, and laboratories.

7. CERTIFICATIONS AND TESTING :-

- Hydraulic Testing – Each unit is hydraulically tested at maximum rated pressure to ensure reliability.
- Standard Compliance – Fully certified to meet international fire safety standards.
- Quality Assurance – Rigorous inspections and testing to maintain consistent performance and safety.

8. WARRANTY :-

12 Months from the date of supply.

Warranty Inclusion – Covers manufacturing defects.

Warranty Exclusions – Damage due to improper installation or unauthorized modifications.

- Exposure to extreme or non-standard operating conditions.

PALLADIUM SAFETY SOLUTIONS PVT. LTD.

An ISO 9001 : 2015 Certified Company

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