

Flange Insulation Kits

Spark Gap Protector

TECSON[®]

Spark Gap Protector

Description

The spark gap protector for cross insulating flange ends in the oil and gas pipeline, to prevent lightning over voltage or over-voltage breakdown through insulating flanges. It will be oil and gas pipeline grounding ,limit the overvoltage on the pipeline in the range of relatively low, preventing pipeline on overvoltage contact the personal harm. Two independent grounding body between the potential of buildings, railway, petrochemical and other system for connection of electric spark gap .



Properties

Parameters	TEC/EX-L3000	TEC/EX-L4000
Lightning Impulse Current (10/350 μ s) (Iimp)	50 KA	50 KA
Classification of Lightning Endurance Capacity (EN 50164-3)	N	N
Nominal Discharge Current (8/20 μ s) (In)	100 KA	100 KA
Rated Power Frequency Withstand Voltage (50Hz)(UwAC)	300 V	300 V
Rated Impulse Spark-over Voltage (Ur imp)	≤ 2.5 KV	≤ 2.5 KV
Power Frequency Spark-over Voltage (50 Hz) (Uaw)	≤ 1.2 KV	≤ 1.2 KV
Protected Type (EN50014, EN 50021)	EX II 3G EEX nC II T4	EX II 3G EEX nC II T4
Operating Temperature Range	-40 ~80 $^{\circ}$ C	-40 ~80 $^{\circ}$ C
Protection Degree	IP65	IP65
Authentication	ZELMO3ATEX3192X	ZELMO3ATEX3192X
Enclosure Length	70 mm	70 mm
Enclosure Diameter	45 mm	45 mm
Enclosure Material	Zinc die-cast, Plastic	Zinc die-cast, Plastic
Corresponding Time	25 ns	25 ns
Total Length	600 mm	800 mm
Suitable for Flange Size	120 ~230mm	120 ~230mm

Benefits

- Absorb large energy, reliable protection and residual depression;
- The response speed is nanosecond, no freewheeling;
- The shell adopts corrosion resistant insulation materials, suitable for installation in different environments.

Installation

The spark gap is mounted between two separate ground electrodes or between the connected to the ground drain.

This product is free of maintenance.