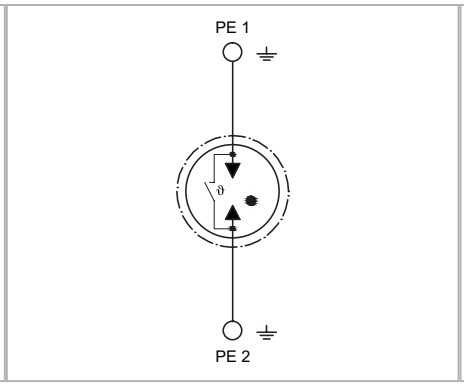
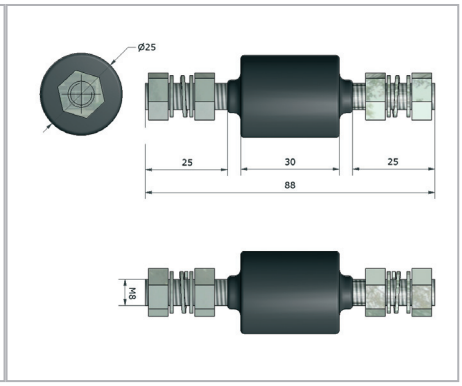
Datasheet

Rare-gas-filled insulation spark gaps

Flexible mounting





A rare-gas-filled spark gap for the lightning protection equipotential bonding, the insulation of electrically separated parts and the bridging of insulating flanges of gas pipelines. For internal or similar applications.

- **High-quality industrial ceramics**
- **Rare-gas filled, hermetically sealed**
- **Free from radioactive substances**
- **High lightning current discharge capacity of 100 kA (10/350 µs) (class H)**
- **High reliability, robust**
- **Stable performance, long service life**
- **Fail-safe characteristic**
- **Test standard DIN EN 62561-3:2018-02**

Technical Data		TSF 100
IEC category		Class H
Nominal DC sparkover voltage at 100 V/s	UagN	100 ±20% V=
Nominal AC sparkover voltage (50 Hz)	Uaw	70 ±20% V
Typical impulse sparkover voltage	Uas	650 V
Max. impulse sparkover voltage	Uas	950 V
Lightning impulse current (10/350 µs)	Iimp	75 kA
Lightning impulse current (10/350 µs) total	Itotal	100 kA
Nominal impulse discharge current (10 x 8/20 µs)	In	100 kA
5x Nominal alternating discharge current at 50 Hz, 1 s, 3 min pause	Iwn	100/1 A/s
Nominal alternating discharge current (50 Hz)		200/0,5 A/s
Spark-gap extinguishing conditions	Vex	<70 V / <20 A
Insulation resistance at 10 V, 100 V		> 1 GΩ
Self-capacitance at 1 kHz		6 pF
Test category/climatic category		DIN IEC 60068-1 / 40/90/21
Relative humidity		10%...95% rh
Degree of protection		IP 67
Operating temperature range	TU	-40 - +80 °C
Terminals		M8 bolt/nut (NIROSTA stainless steel)
Dimensions (Ø × L)		25 × 88 mm
3x lightning impulse current (10/350 µs), long-duration current (CENELEC/BTTF 62-2)	Iimp	75 kA/ 38 As/ 1,45 MJ / Ω + 150A / 0,5s / 75 As

Order Data	
Product	TSF 100
Article-No.	44 90 69

05.02.2020