Whether you are looking for standard products or a partner to develop a new bonding technique for the latest advanced materials, Solid Sealing Technology has the right team for your requirements.

Contact SST for your next hermetic feedthrough requirement and experience the Customer Satisfaction and Technical Expertise you deserve!

SST Quality Policy
SST will meet our Customer’s Needs by assuring that our operational activities are customer focused and add value. We will integrate our continuous improvement philosophy into our daily workflows, all under the control of our quality management system.
NEW High Voltage Connector Products

Solid Sealing Technology introduces two new series of high voltage connector solutions that are made from using alumina ceramic to metal sealing technology. These high voltage connectors feature a small, compact design with a weldable diameter that ranges from .375 inches to 1.245 inches and are available for voltages up to 50 kV. The connectors are rated for currents from 3 to 10 amps and are suited for high voltage equipment manufacturers including semiconductor ion implants, particle accelerators and x-ray. Both series of high voltage connectors are suitable for high temperatures, UHV and pressure and provide an ideal solution for high voltage applications which maximize ratings, safety and the connection interface.

12 kV & 15 kV High Voltage Connectors

Solid Sealing Technology is now offering high voltage connectors with voltages of 12 kV and 15 kV for high voltage applications. The 12 kV connector has a pin diameter of .030 inches, while the 15 kV connector’s pin diameter is measured at .038 inches. Current ratings differ in both connectors. SST’s 12 kV connector has a current rating of 3 amps and our 15 kV connector has a rating of 7.5 amps.

Both connectors are available in different number of pins when put in different installations. Standard assembly installation for each connectors includes weldable, ConFlat® Flange, and ISO KF Flange. For the ConFlat® and ISO KF Flanges, the number of pins for each of the two connectors ranges from one to four.

30 kV & 50 kV High Voltage Connectors

Solid Sealing Technology now offers higher voltage connectors for 30 kV and 50 kV. Each connector features a pin diameter of .062 inches and has current ratings up to 10 amps. Both the 30 kV and 50 kV connectors feature a push on connection with a molded cable and an airside plug. Additionally, each connector maximizes the temperature rating at 450 °C. (Note: operating temperatures ranges from -55 °C to 125 °C when the plug is connected.)

Temperature Ratings without Plug:
-269°C to 450°C for Weldable and CF Flange Assemblies
-25°C to 205°C for all ISO KF Assemblies

Temperature Ratings with Plug:
-55°C to 125°C for Weldable and CF Flange Assemblies
-25°C to 125°C for ISO KF Assemblies

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12 KV & 15 KV High Voltage Connectors

- Voltage up to 15 kV
- Current up to 7.5 amps
- Pressure up to 2200 PSIG (152 Bar)
- Airside plug included

12 KV

- Gold plated molybdenum conductors
- Installation – Weldable, ConFlat® Flange or ISO KF Flanges

30 kV & 50 kV High Voltage Connectors

- Voltage up to 15 kV
- Current up to 7.5 amps
- Pressure up to 2200 PSIG (152 Bar)
- Airside plug included

### Cable: 24 AWG Silver Plated Copper Wire with Silicone Coated F.E.P. Insulation

### Plug Body: Molded Silicone Rubber

### Ø .08 [1.9]

### .020 [0.51] Weld 304 STN STL

### Ø .25 [6.4]

### .03 [0.8]

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**Pin Arrangement Options for CF or KF Flanges**

- KT21818 OR KT21822
  - KF40 OR CF2.75
  - Ø 1.00 [25.4]
- KT21819 OR KT21823
  - KF40 OR CF2.75
  - Ø 1.00 [25.4]
- KT21820 OR KT21824
  - KF40 OR CF2.75
  - Ø 1.00 [25.4]
30 KV & 50 KV High Voltage Connectors

- Voltage up to 50 kV
- Current up to 10 amps
- Pressure up to 400 PSI G (28 Bar)
- Airside plug included

Temperature Ratings without Plug:
- -80°C to 450°C for Weldable and CF Flange Assemblies
- -25°C to 205°C for all ISO KF Assemblies

Temperature Ratings with Plug:
- -55°C to 125°C for Weldable and CF Flange Assemblies
- -25°C to 125°C for ISO KF Assemblies

Pin Arrangement Options for CF or KF Flanges

Installation Options

Installation: KF40

Installation: CF2.75

All dimensions are in inches [mm]. Leak rate <1 x 10⁻¹⁰ atm-cc/sec (He).  TEL: (518) 874-3600  INFO@SOLIDSEALING.COM

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SST provides ideal sealing solutions for demanding applications including high temperature, ultra-high vacuum, high voltage, high density and high pressure environments. Our products and unique capabilities enable us to service large OEMs, Distributors, and Research and Development Groups from various markets including: Semiconductor Equipment, Thin Film Coatings, Industrial Lasers, Homeland Security and Defense, Medical, Nanotechnology, Power Distribution, Telecommunications, and High Energy Physics.

Please visit our website at www.solidsealing.com for a complete listing of our standard products including 3-D Models, PDF and GIF drawing files or contact us with your specific custom requirement.