

Cryogenics



SGA
Technologies
connecting the future



Connecting the future

Cryogenics

SGA Technologies has been supplying high quality, high reliability hermetic components and packages since 1969. Customers globally are using SGA devices in applications where performance, quality and reliability are critical. Our components provide sealed protection against gas transfers such as Nitrogen, semiconductor storage and cooling systems for space and mil applications.

Why use SGA Glass to Metal Seals?

- Hermetically sealed, vacuum tight
- Long-life, reducing replacement time and cost
- Extreme temperature capability <250°C
- High Pressure resistance able to withstand high pressure applications
- Chemically robust to withstand corrosive environments
- Corrosion resistant
- Material Options allow for new design ease
- H₂ , Nitrogen & Helium compatible

Electrical & Functionality Characteristics

- Maximum leak rate 1x10⁻⁹ atm.cc/sec
- High insulation resistance
- High DWV
- Operational at high temps over 250 °C
- Can be tested to MIL and JEDEC standards
- CTE matched for excellent functionality

Mechanical Characteristics

- Multi-pin configurations available
- Pins suitable for automated assembly, manual soldering or mating connectors
- Orientation features can be added for PCB mounting or automation
- Small, space saving design
- Plating finishes available for wire bonding

Applications:

- Vacuum jacketed piping
- MRI machines
- Cryogenic processors
- Pressure vessels
- Mechanical freezers



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or visit us at www.sgatech.co.uk





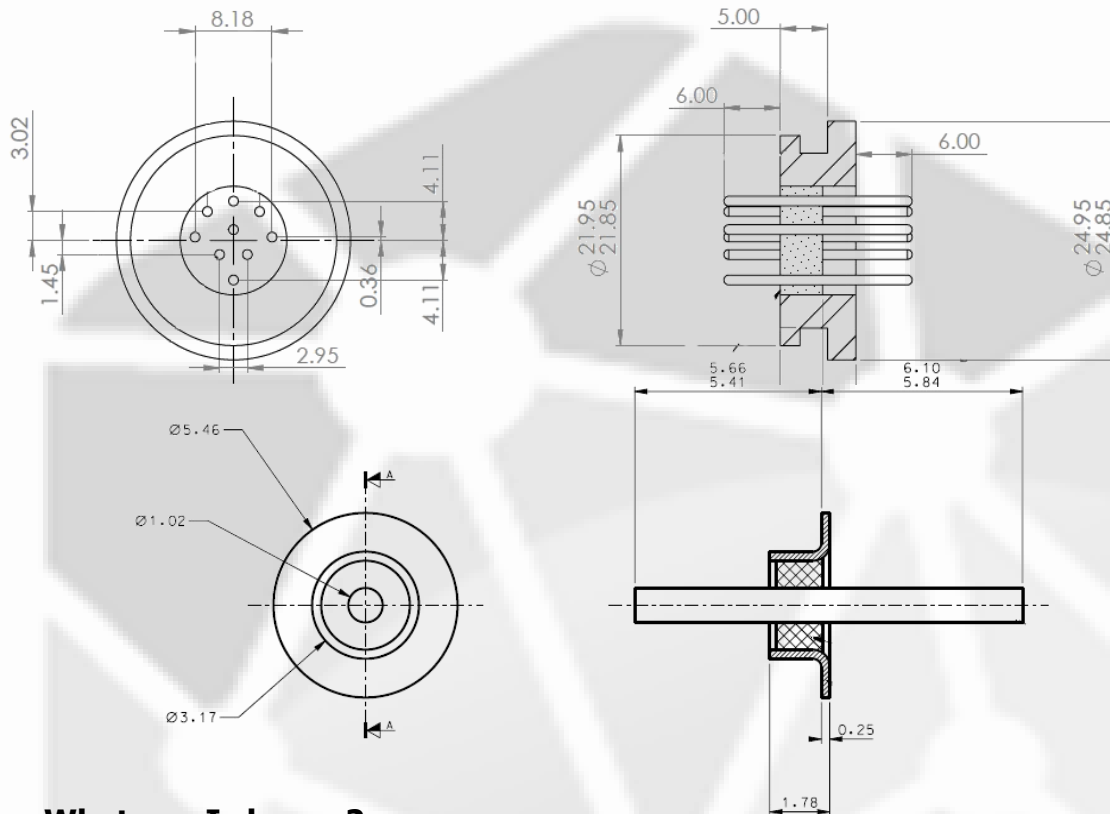
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DATASHEET

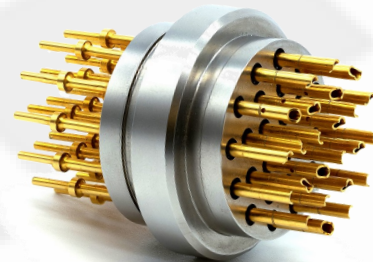
Mechanical Drawings

Below are some examples of the seals SGA Manufactures for the cryogenic Market. For full datasheet, please contact SGA.



What can I change?

- Pin: Chose from straight, solder cup or mating connectors
- Pin diameter
- Pin length
- Pin configuration
- Ferrule metallisation



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Who are we?

SGA Technologies limited

Since 1969, SGA Technologies has been supplying high quality, high reliability hermetic components and packages. Customers globally are using SGA devices in applications where performance, quality and reliability are critical.

Equipment as diverse as satellite communications, military and commercial aircraft, oil drilling platforms, medical systems and scientific equipment are all using SGA products.

In-house Design, Assembly and Test

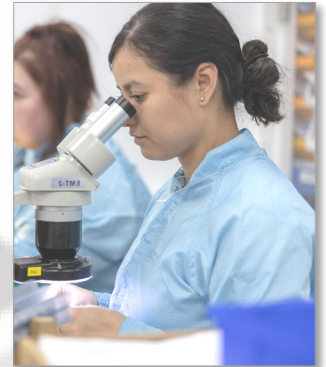
All aspects of design, manufacture and testing take place at SGA, thereby ensuring complete control over quality and reliability. Our engineers oversee all aspects of the process for you. During development and into production, you can be sure of our pedigree and experience.

New Product Development

At SGA we are able to offer a fast, complete design and manufacturing service. Because we control all elements, we can quickly customize every aspect of our design. On numerous occasions we have developed new processes to meet customer's exacting specifications.

We are always looking for new materials, new processes and new ways of bringing technological edge to our designs. We have worked with universities and on funded programs, working alongside leading research institutions to bring the very best performance and lifetime to our designs.

At SGA, whatever the challenge, we have the ability to meet it.



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