

# Renewable Energy



**SGA**  
Technologies  
connecting the future

## Connecting the Future



## Renewable Energy

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 goal towards a greener environment allows our unique components the ideal solution where Solar, Wind or Geothermal applications are key.

### Why use SGA Glass to Metal Seals?

- Hermetically Sealed, vacuum tight
- Long-Life, reducing replacement time and cost
- Extreme Temperature resistance
- High Pressure resistance up to 30Kpsi (2K bar)
- Chemically robust construction
- Corrosion resistant
- Material Options allow for new design ease
- H<sub>2</sub> Compatibility

### Electrical & Functionality Characteristics

- Suitable for BS EN 1359, EN14236 standard
- Suitable for Qmax 6.00m<sup>3</sup> / Hr
- Tested to 1x10<sup>-8</sup> atm.cc/ sec
- High insulation resistance
- High DWV
- Operational at high temps over 250 °C
- Can be tested to MIL and JEDEC Standards

### 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
- Finishes available for wire bonding

### Applications:

- Solar Panels
- Wind Farms
- Solar PV
- Hydroelectric
- Condensers
- Turbine



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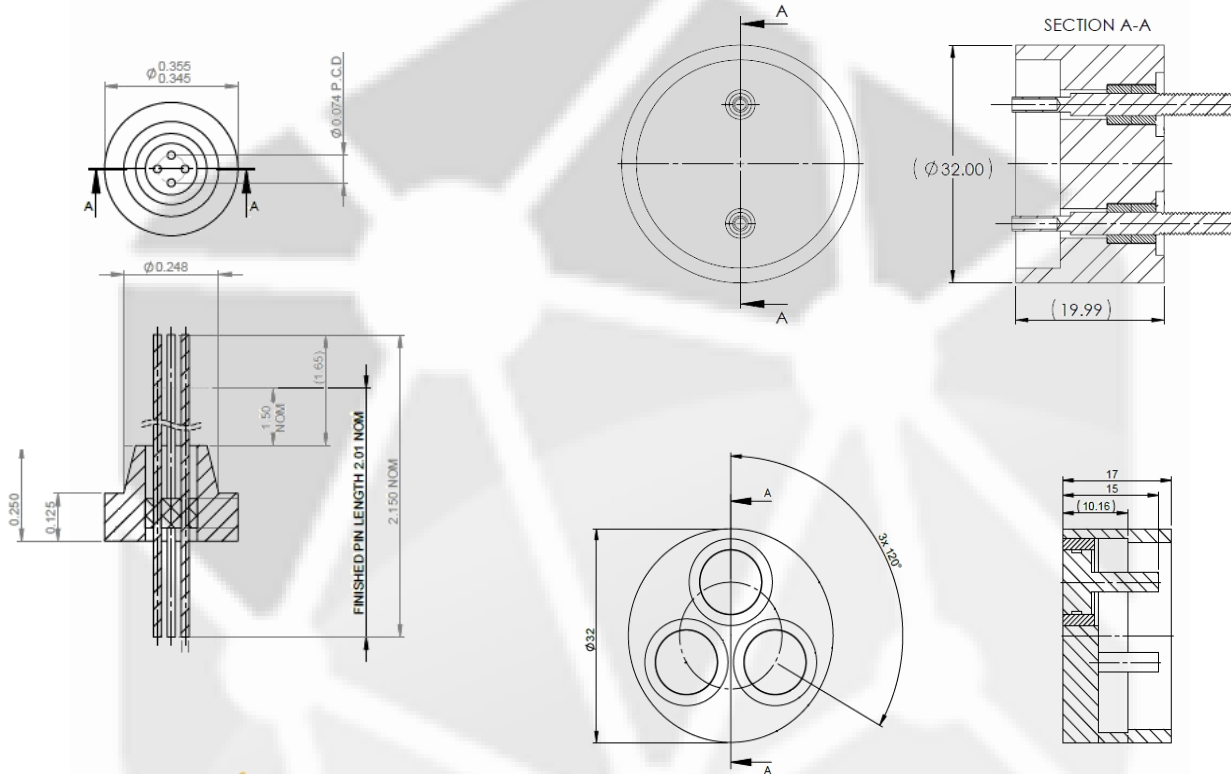
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## Mechanical Drawings

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



### What can I change?

- Pin: Chose from straight, solder cup or
- Pin diameter
- Pin length
- Pin Configuration
- Ferrule Metallisation

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# DATASHEET

## Renewable Energy

### 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

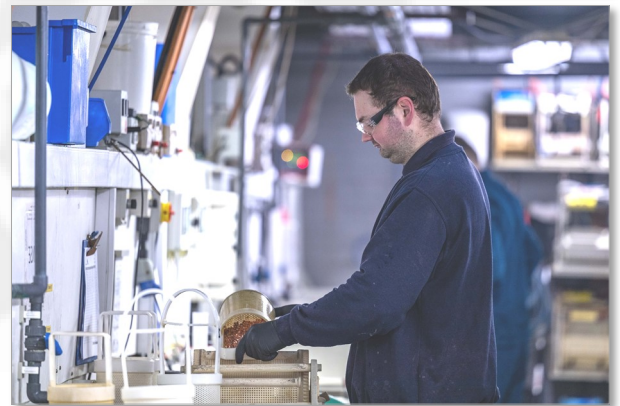
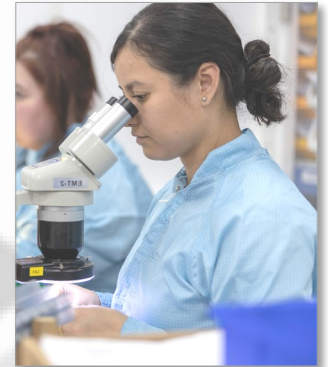
All aspects of design, manufacture and testing take place at SGA, thereby ensuring complete control over quality and reliability. Our engineers oversee all aspects of the process for you. During development and into production, you can be sure of our pedigree and experience.

#### 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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