

# Utilities & Energy



**SGA**  
Technologies  
connecting the future





## Utilities & 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 high volume lines are already supporting major gas meter programs, supplying them millions of components annually.



### Why use SGA Glass to Metal Seals?

- Suitable for BS EN 1359, EN14236 standard
- 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

- Compatible for Domestic Single phase & Industrial 3-phase
- Suitable for Q<sub>max</sub> 6.00m<sup>3</sup> /Hr
- Good electrical performance
- High insulation resistance
- High Dielectric Withstanding Voltage
- Suitable for Fire Test to within EN 1359: 2017 standards

### Mechanical Characteristics

- Multi-pin configuration available
- Pins suitable for automated assembly, manual soldering or mating connectors
- Orientation features can be added for PCB mounting or automation
- Different mounting techniques including
  - ◆ Swaging
  - ◆ Riveting
  - ◆ Welding (material dependant)
  - ◆ Soldering
  - ◆ O-Ring / Gasket
  - ◆ Other Mechanical methods
- Hermetic after riveting

### Applications:

- Gas meters
- Water meters
- Hybrid Systems
- EV
- Hydrogen fuel cells
- Energy distribution
- Electric transmission



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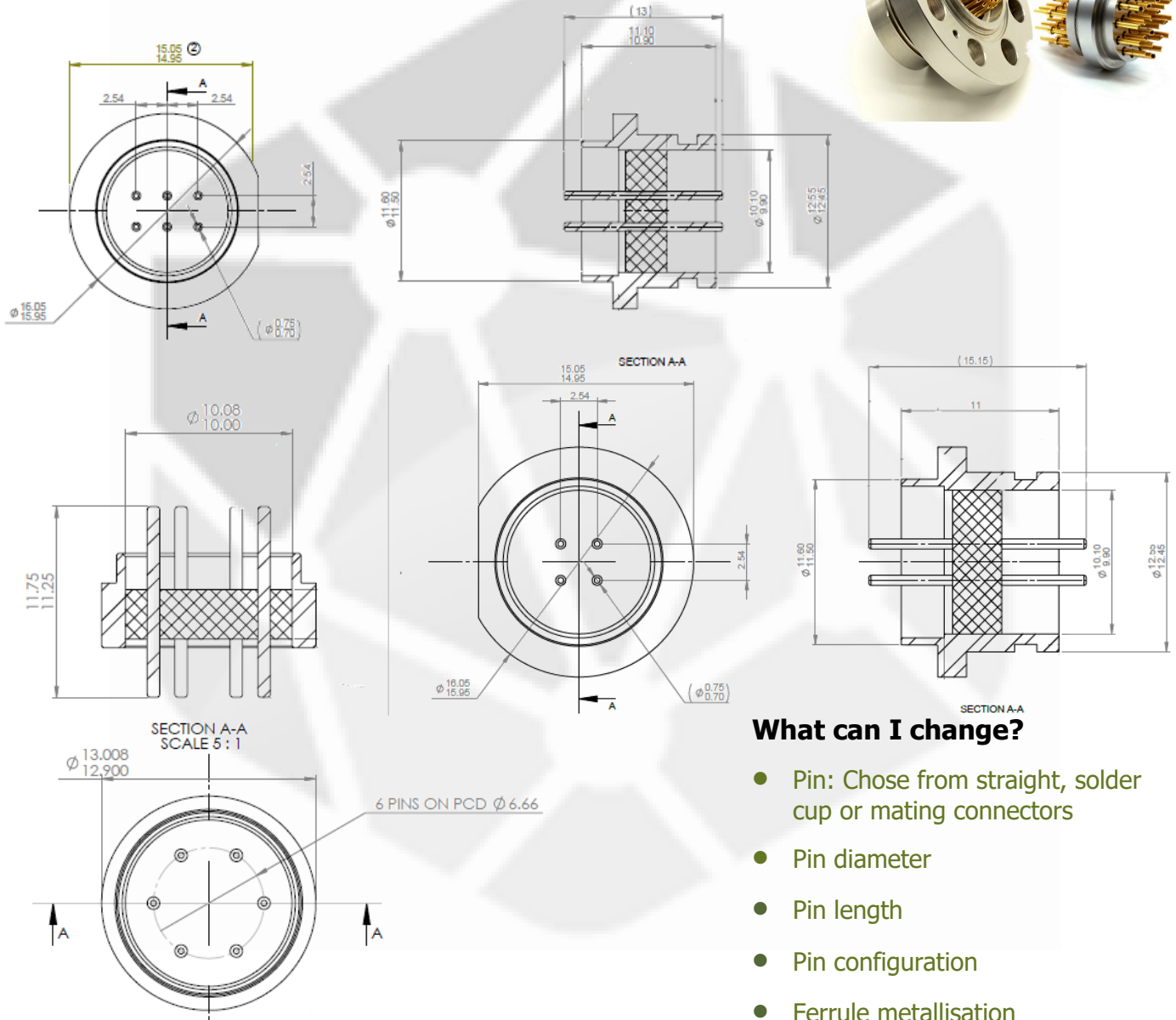
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## Mechanical Drawings

Below are some examples of the seals SGA Manufactures for the utilities and energy 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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## DATASHEET

# Utilities & 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

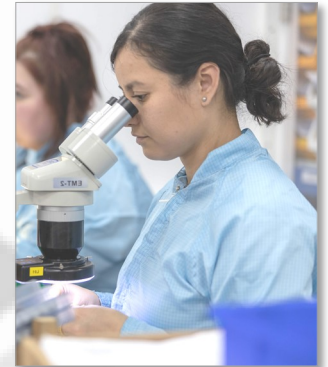
All aspects of design, manufacture and testing take place at SGA, thereby ensuring complete control over quality and reliability. Our engineers oversee all aspects of the process for you. During development and into production, you can be sure of our pedigree and experience.

### 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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