


## Customised Pressure Relief Solutions

OsecoElfab is a leading provider of customised pressure relief solutions to OEMs and industrial customers. Our high-integrity rupture disc plugs and custom products are used in precision industries such as aerospace, medical, and scientific research.

Our purpose is 'Protecting life. Solutions for a safer, cleaner world.'

We are committed to creating a safer, cleaner world, both today and for future generations. This means protecting life with innovative technology, and safeguarding plant, equipment, and the environment for decades to come.



Our strength lies in working collaboratively with our customers to design customised pressure relief solutions that meet the specifications they need for their individual applications.

## Industries We Serve

We can design customised pressure relief solutions for any application in any industry or market sector - the only limitations are the ones specified by our customers' applications.

Some of the key industries we serve include:

- Aerospace and Defence
- Automotive and Transportation
- Electricity Transmission and Distribution
- Industrial Equipment
- Industrial Gases, Cryogenics and HVAC
- Lithium-ion Battery Protection
- Marine and Subsea
- Medical
- Scientific Research
- Powder and Bulk Handling
- Power Generation



## A Full Prototyping Design Process

Our custom engineering process draws on expert, first-hand experience of working with major organizations. Whether we adapt a standard product to fit your needs or develop an entirely new safety device, we will work closely with you at all stages, from assessment and initial design concept to supplying the finished product.



We fully test and inspect all products before shipping. This speeds up test schedules for you and ensures long-term reliability.

# OUR SOLUTIONS AND SERVICES

## Design Features

- Welded assemblies
- Soldered assemblies
- Screwed and bonded assemblies
- Holderless/bolted disc designs
- Disc-and-holder designs:
  - Reverse
  - Forward
  - Union holders
  - Threaded holders
- High speed activation
- Fail-safe performance
- Safe and simple installation
- High operating ratios and tight tolerances for high accuracy and efficiency

## Design Standards

Worldwide approvals and accreditations include:

- SO 4126
- PED
- ASME VIII
- TÜV
- CE



## Manufacturing and Testing

- ASME certified Flow Labs in the UK and USA
- Lloyds registered cycle testing rig
- Helium leak testing up to  $10^{-8}$  cc/sec
- 3D CAD design
- Electron beam welding
- CNC machining
- 5-axis laser cutting
- SPC computer controlled scoring

## Supply Chain Management Support

- Flexible stock and bulk supply agreements
- International distribution channels for fast-track delivery
- Full traceability of all materials
- Automation supports production at scale and high volumes

## Ongoing Engineering Support

Our technical support does not end once your customized solution has been designed and delivered.

Our Design Engineers will remain on hand for ongoing advice, trouble-shooting, and support with sizing and flow calculations.

## Contact

Serving a global customer base, we have two manufacturing facilities, in Broken Arrow (USA) and North Shields (UK). These are supported by six regional sales offices and over sixty approved representatives worldwide.



**Let us help you with all  
your pressure relief questions.**

UK office | North Shields  
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US office | Broken Arrow  
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**osecoelfab.com**