

Airframe sealing profiles



Airframe sealing profiles



Demanding aeroengine requirements
The aeroengine designer cannot risk component failure and major manufacturers rely on the experience of Trelleborg Sealing Solutions to ensure sealing integrity over extended aircraft service life.



Specialized airframe products
Airframe seals are not only used within the engine compartment but throughout the aircraft body, on wings, windows and doors, where they contribute to aerodynamic efficiency.



Trelleborg Sealing Solutions is proud to bring together the unique capabilities of three world-leading brands with over 50 years of experience in aircraft sealing - Woodville Polymers, Specialized Elastomers, and Chase-Walton Elastomers.

Manufactured to standard or custom profiles, each airframe seal is hand-fabricated with absolute attention to detail and quality assured through 100% inspection. Focusing on aerodynamic efficiency, they offer reliability in service, along with efficiency in assembly and maintenance. The use of advanced FEA combined with product qualification programs, including extensive testing and verification, leads to maximum service life.

Trelleborg Sealing Solutions airframe seals, from existing tooling where possible, are used within the engine, structural gaps, wings, doors, hatches, and windows to meet customer needs throughout the aircraft. Trelleborg Sealing Solutions design capabilities can also address applications for wing and moving surfaces including complex aerodynamic shrouds for hydraulic jacks, extrusions and fabricated seals for doors and hatches, and interior couplings. Complex and even inflatable geometries can be developed for specific applications.

Developing and formulating our materials in house, Trelleborg Sealing Solutions has acquired significant skills in the field of applied materials technology. Through materials research, Trelleborg Sealing Solutions has developed an advanced composite fire seal that is compliant with international standard ISO 2685, withstanding flame temperatures of +2012 °F/ +1100 °C for 15 minutes. With over 2,000 proprietary compounds, our Turel elastomers for aerospace applications are currently available in nitrile, silicone, and fluorosilicone grades. Parts are available as either homogenous or fabric-reinforced. Trelleborg Sealing Solutions always recommends specific customer testing in order to verify performance of any sealing configuration or material.

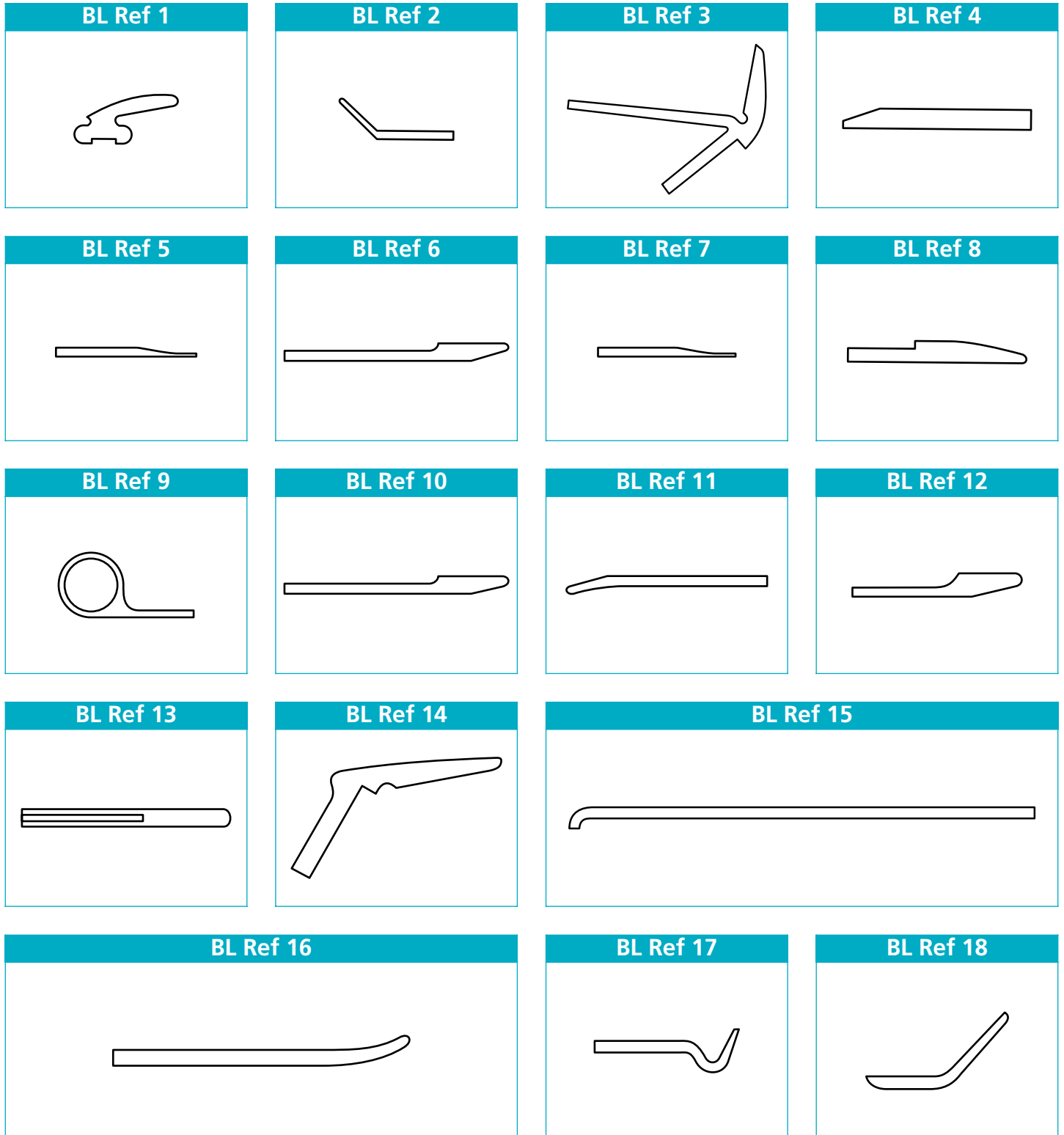
Trelleborg Sealing Solutions manufacturing sites are strategically located to provide global coverage while delivering cost effective sealing solutions and maintaining the highest standards of international airworthiness, quality control, and meeting the latest environmental legislation. Manufacturing at the following four locations:

- Trelleborg Sealing Solutions Cadley Hill, United Kingdom
- Trelleborg Sealing Solutions Condé, France
- Trelleborg Sealing Solutions Hudson, United States
- Trelleborg Sealing Solutions Shanghai, China



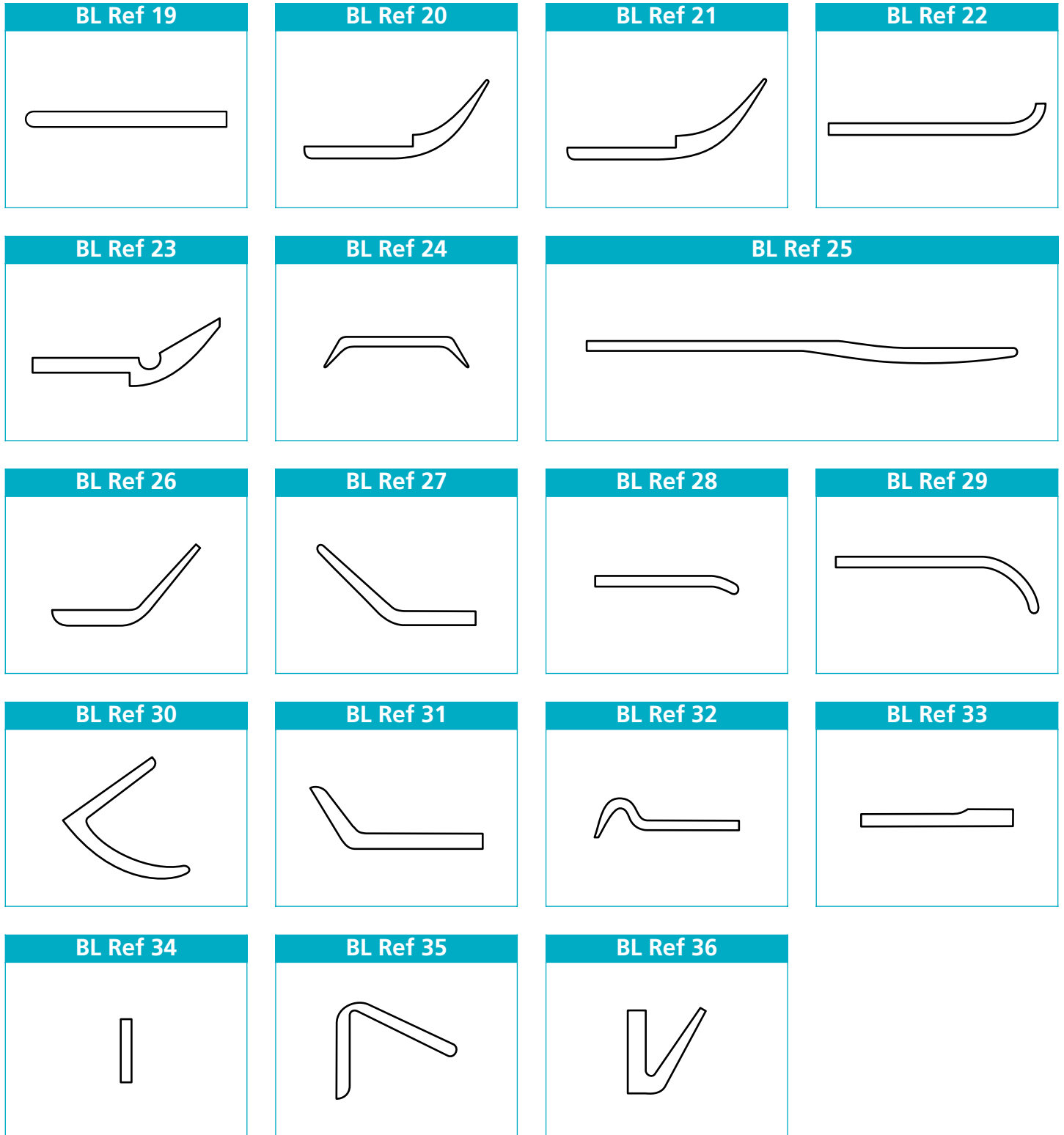
Innovative inflatable sealing
Trelleborg Sealing Solutions inflatable seals are proven to successfully perform in challenging safety-critical cockpit applications, individually designed and manufactured for numerous models of fighter jets.

Blade / Leaf Seals



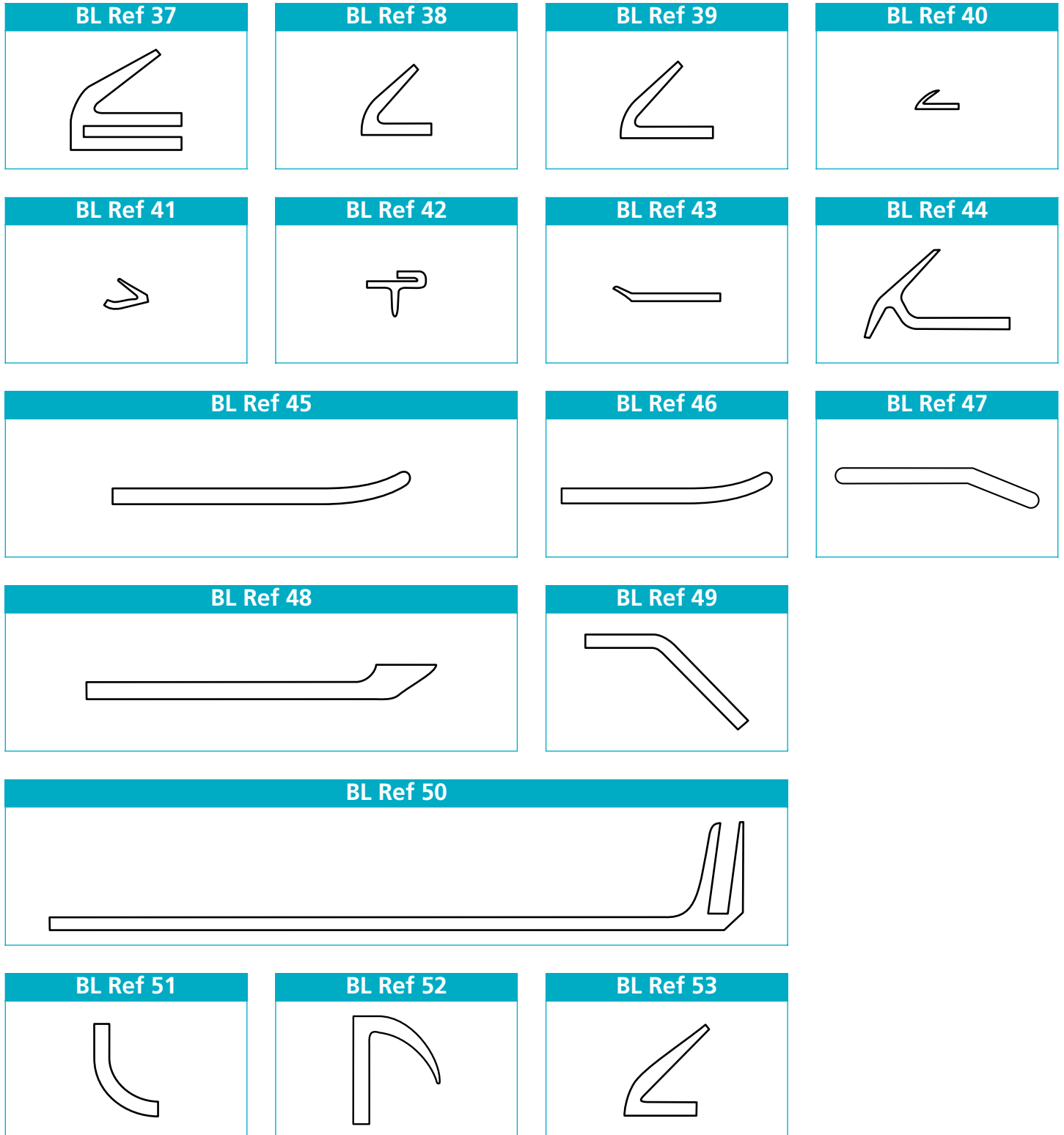
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Blade / Leaf Seals



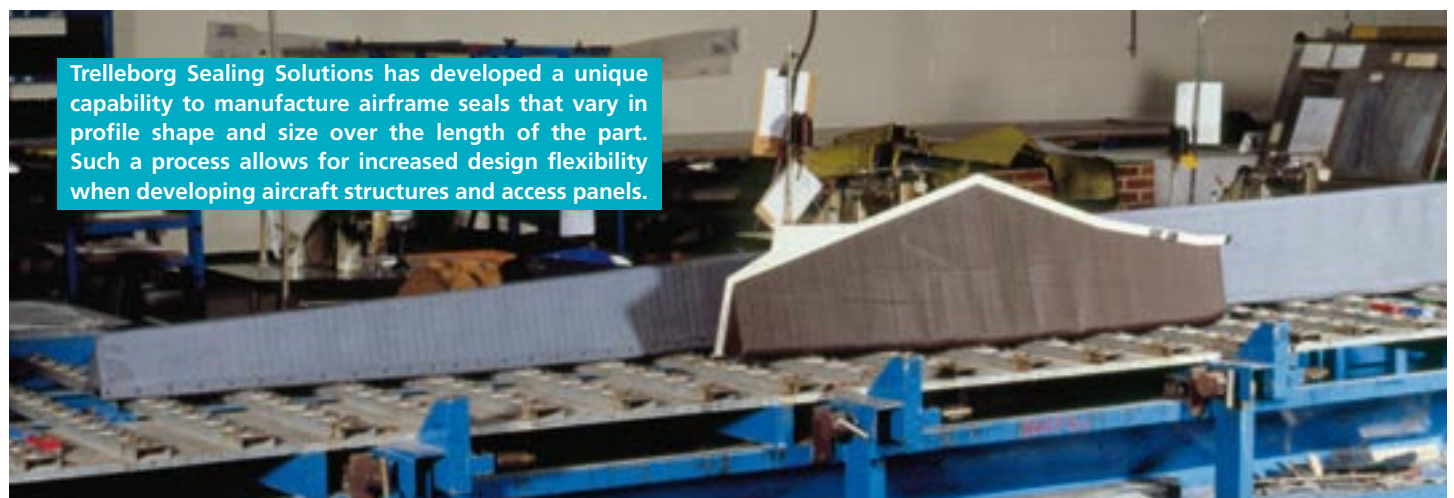
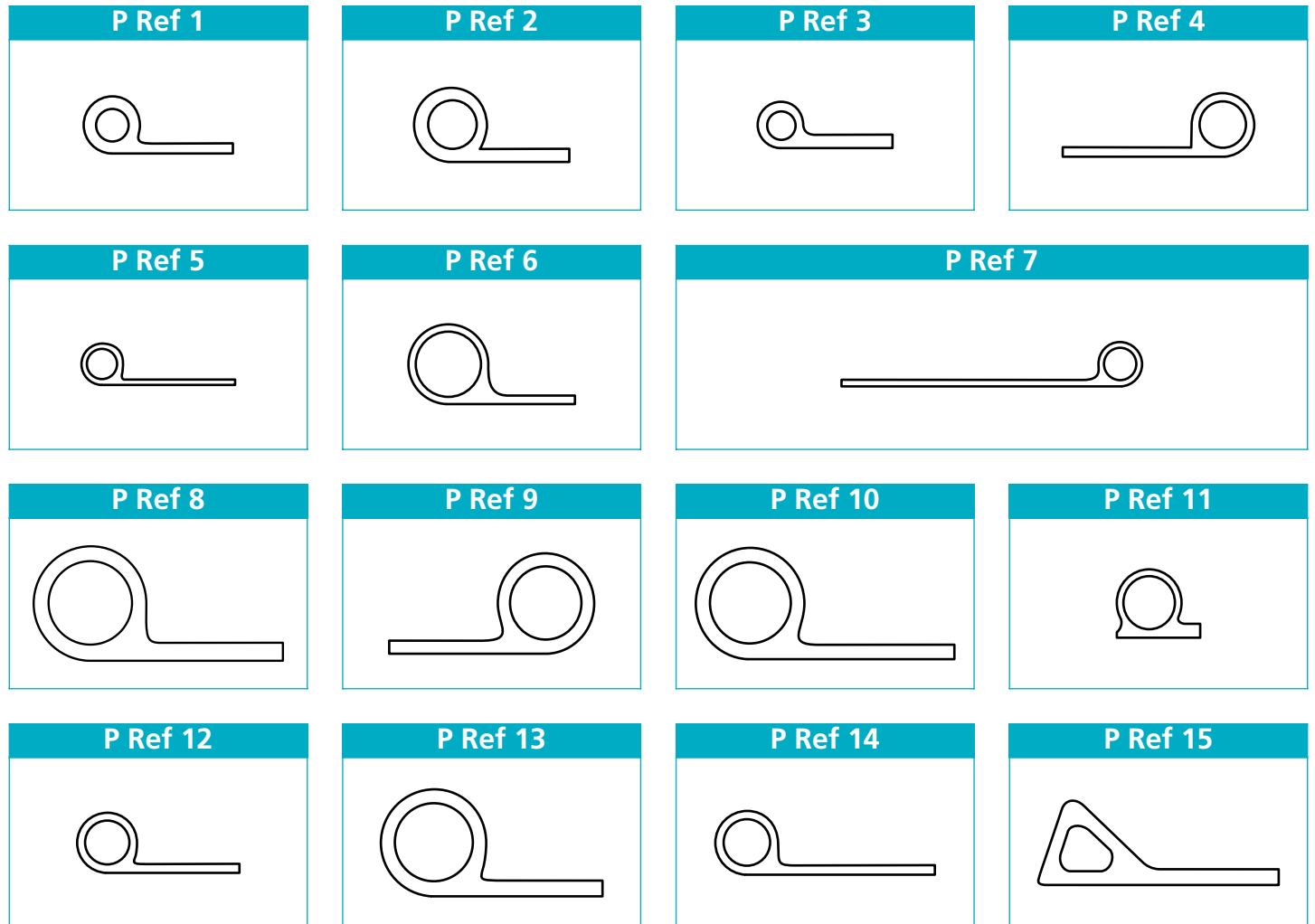
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Blade / Leaf Seals



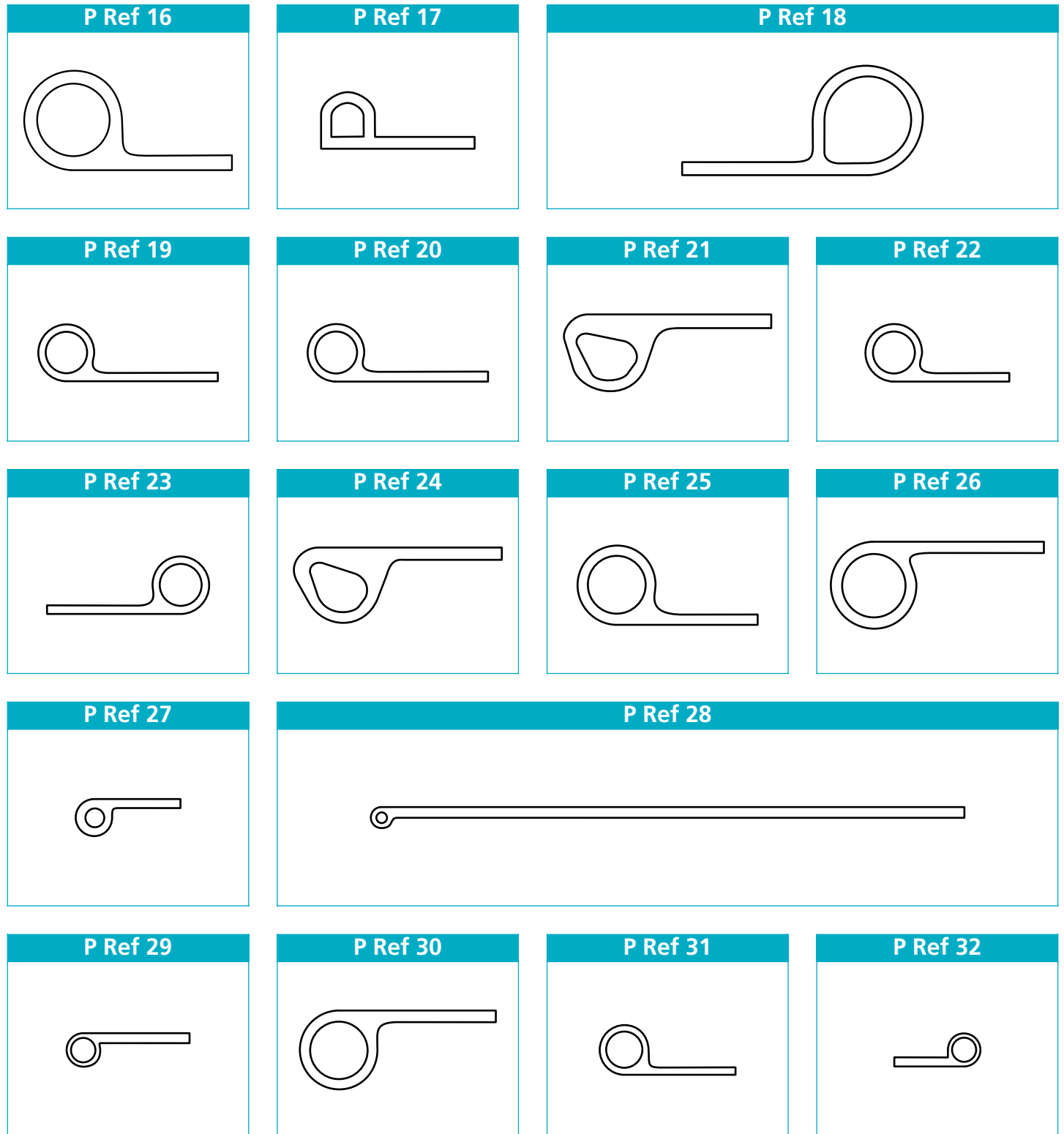
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P-Seals



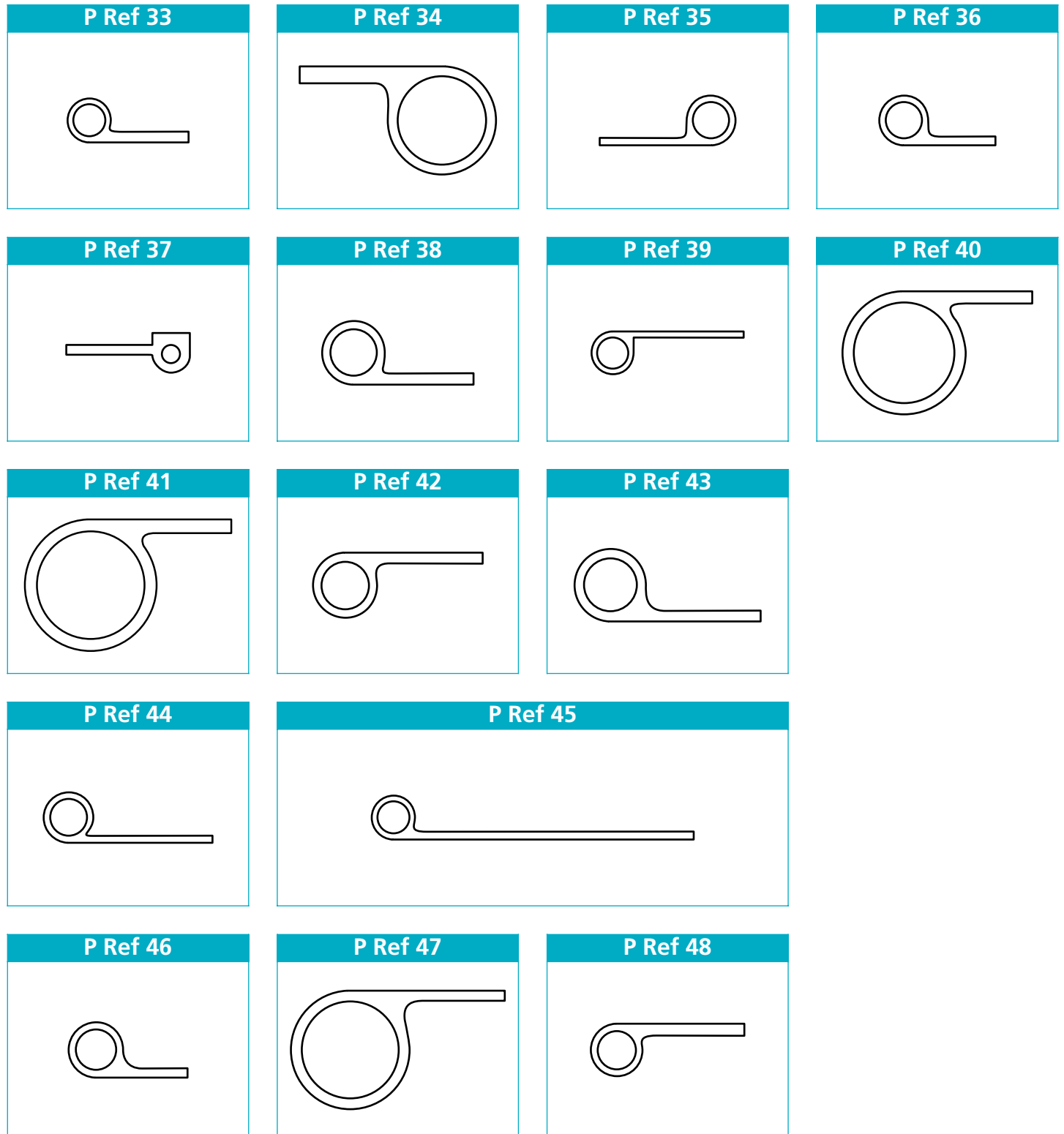
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P-Seals



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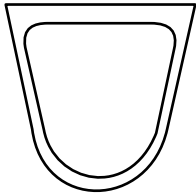
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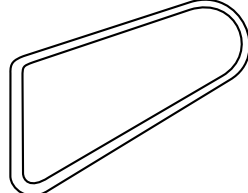
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D-Seals

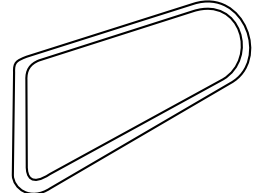
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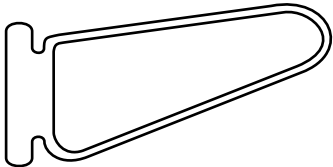
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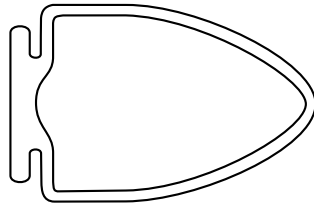
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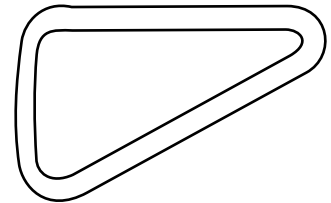
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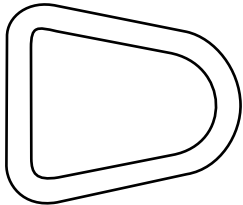
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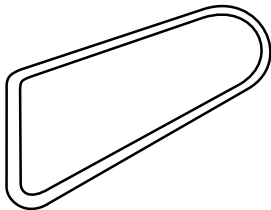
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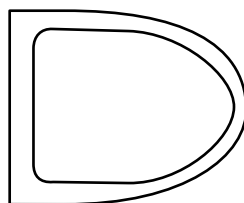
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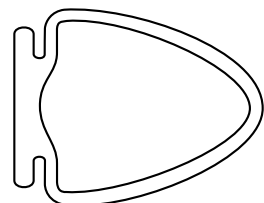
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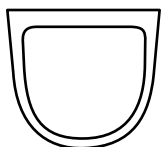
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D Ref 14



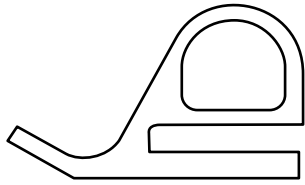
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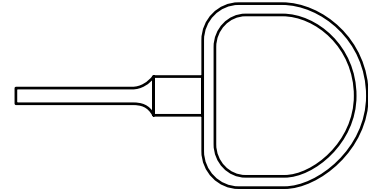
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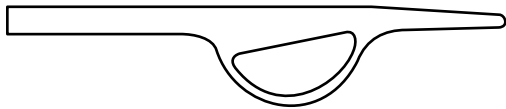
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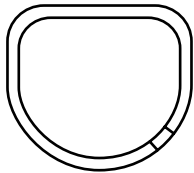
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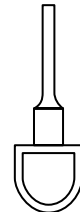
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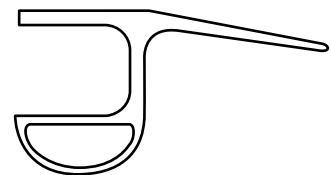
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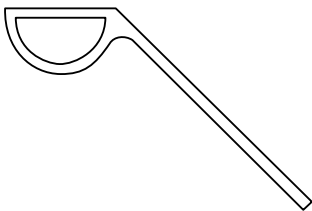
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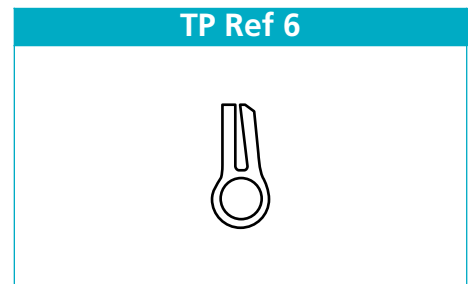
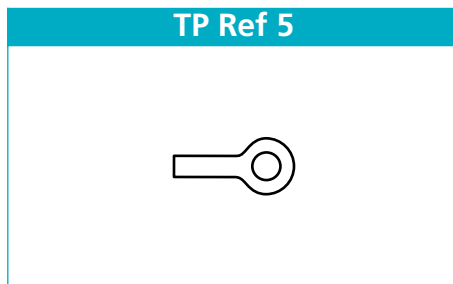
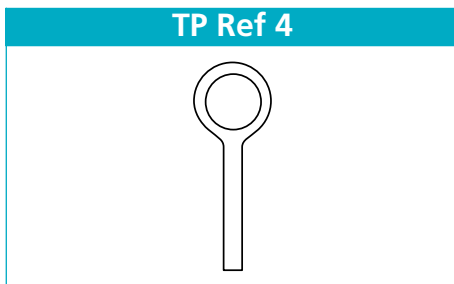
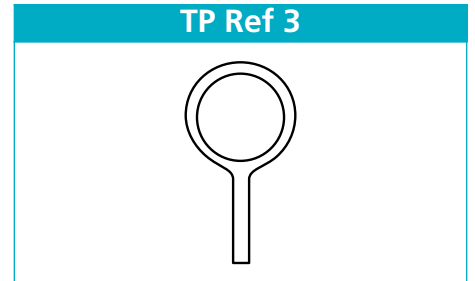
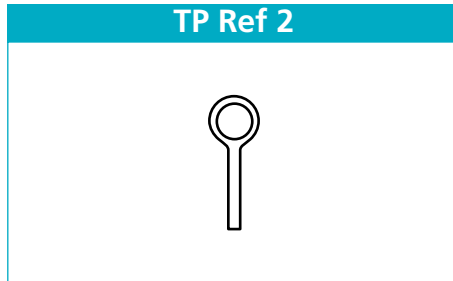
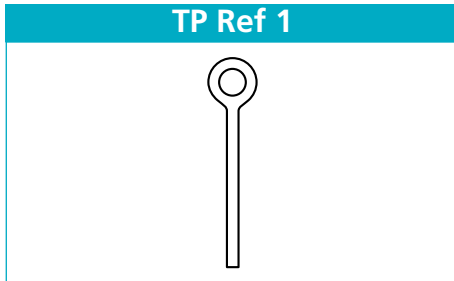


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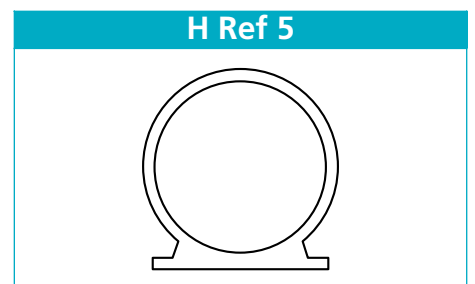
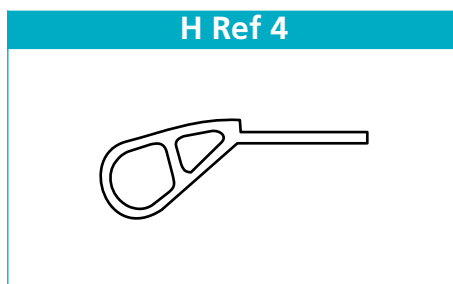
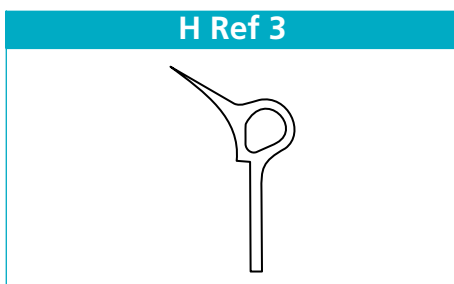
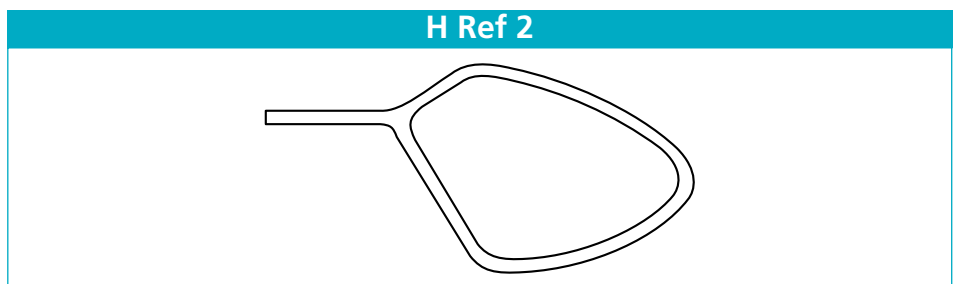
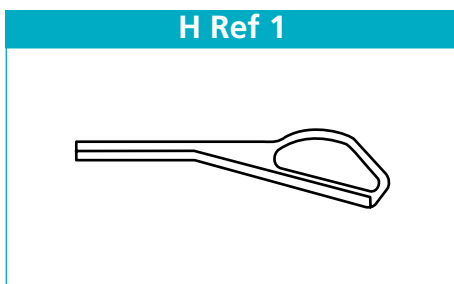


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Tadpole Seals



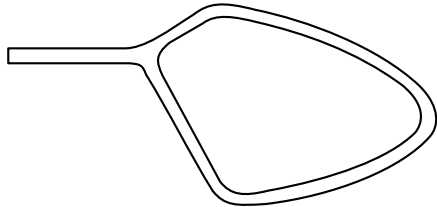
Miscellaneous Hollow Seals



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Miscellaneous Hollow Seals

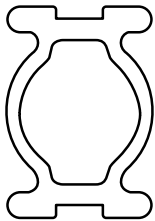
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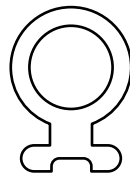
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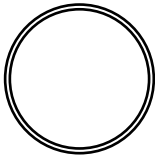
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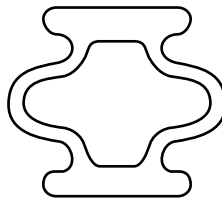
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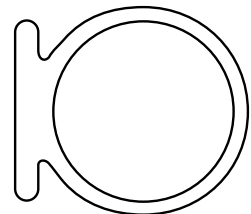
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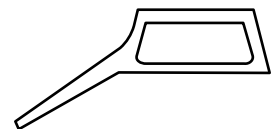
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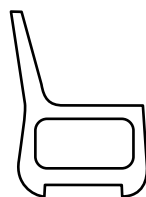
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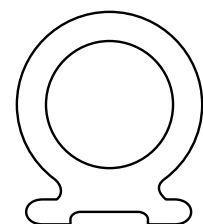
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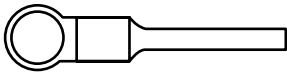
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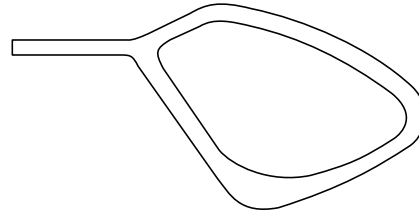
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Miscellaneous Hollow Seals

H Ref 20



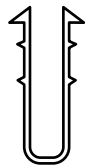
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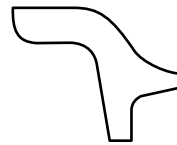
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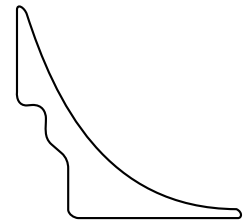
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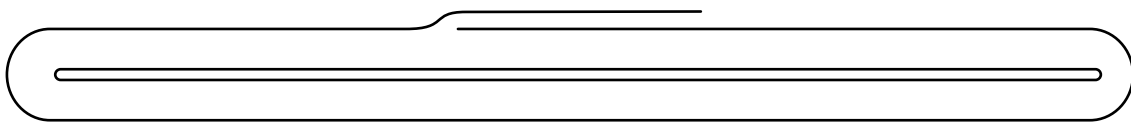
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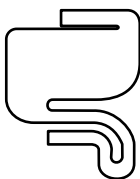
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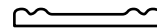
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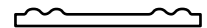
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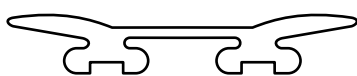
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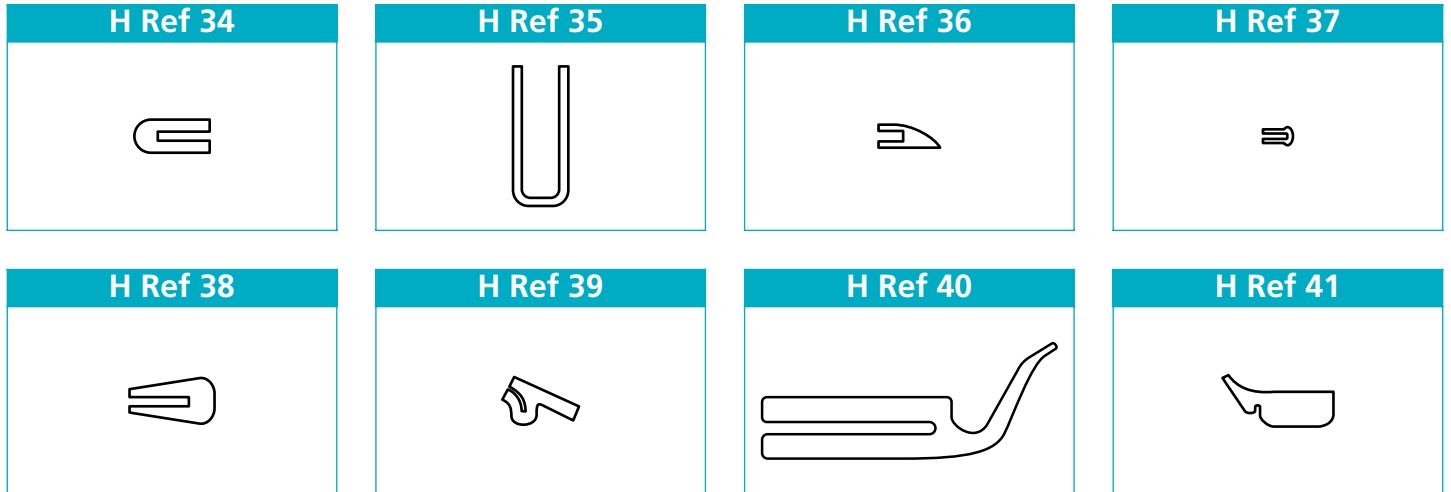


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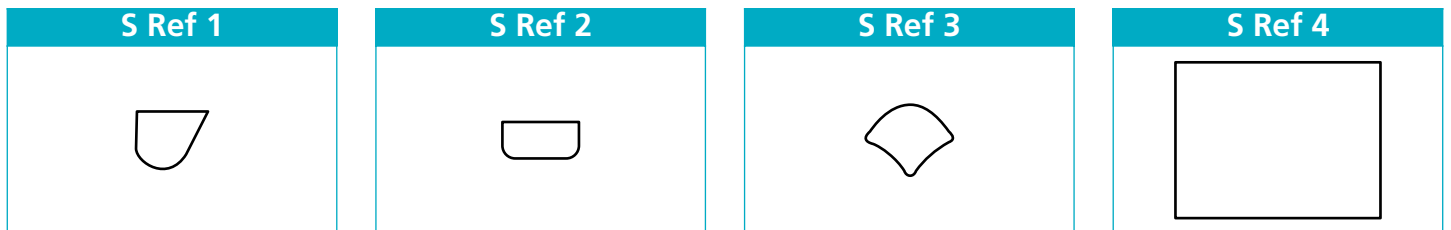


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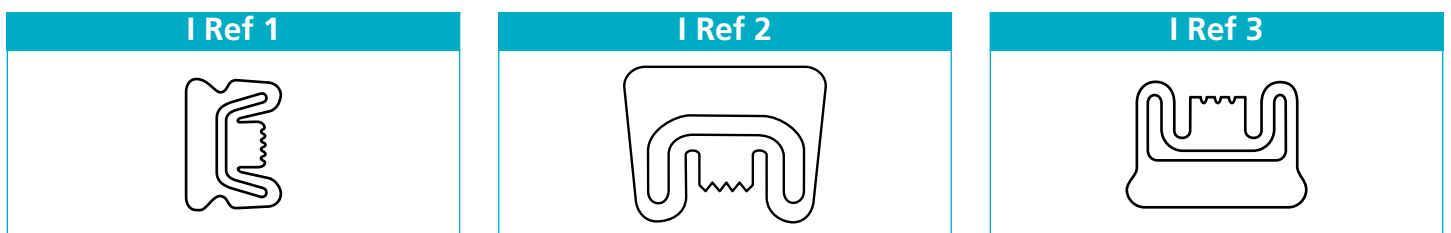
Miscellaneous Hollow Seals



Miscellaneous Solid Seals



Inflatable Seals



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Italy – Livorno

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The Netherlands - Rotterdam

+31 (0) 10 29 22 111

Norway – Oslo

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Poland – Warsaw (Lithuania)

+48 (0) 22 863 30 11

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+7 495 627 57 22

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Mexico - Mexico City

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Aerospace Hub East

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India – Bangalore

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Taiwan – Taichung

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+84 8 6288 6407

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and East Asia, Australasia

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Aerospace Hub Singapore

+65 6 577 1778

Automotive Hub China

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Automotive Hub India

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Central Asia (Armenia, Georgia, Kazakhstan,

Kyrgyzstan, Tajikistan, Uzbekistan)

+7 495 627 57 22

Middle East and Gulf Region

+359 (0) 2 969 95 99



Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative engineered solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has local presence in over 40 countries around the world.



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