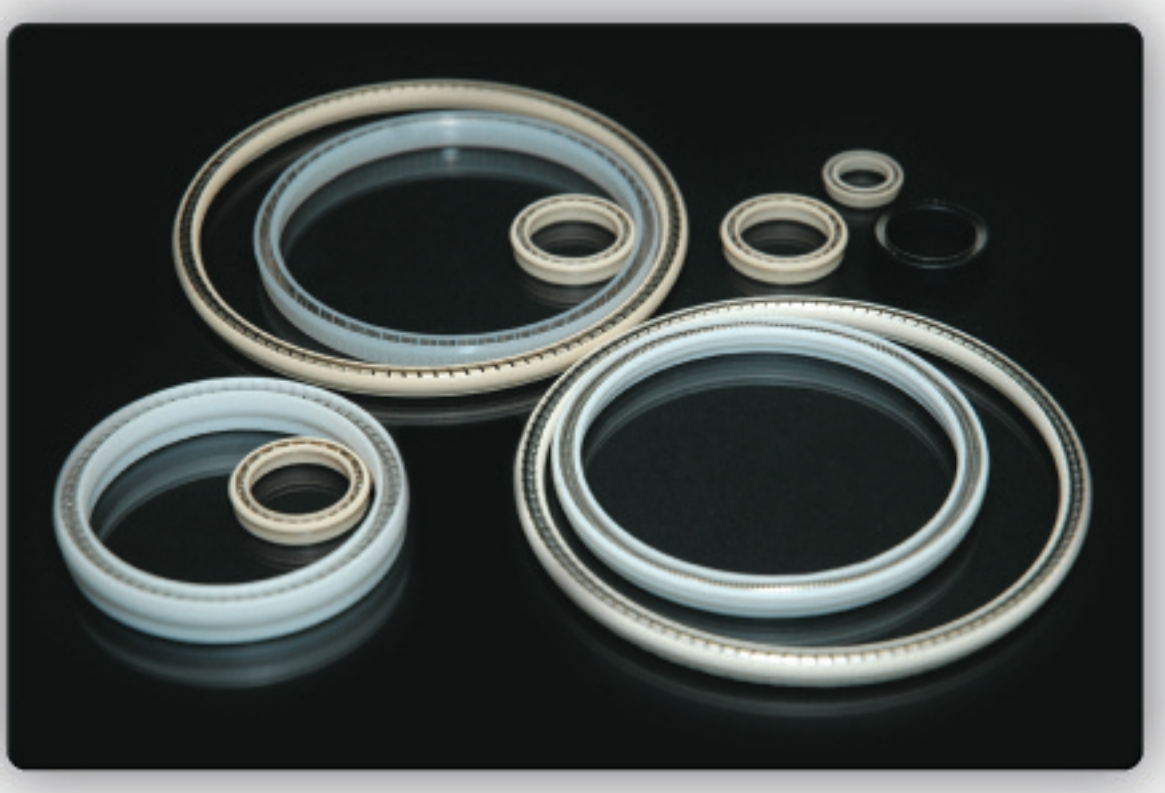
AFT Fluorotec
Incorporating SW Plastics
Innovation in Fluoropolymer

AFT High Performance Seals

AFT produce a range of high performance PTFE seals second to none in the sealing industry. Application of our extensive knowledge of PTFE materials combined with individual seal design and energiser material selection means we can provide a solution to suit almost anything within the operating limits of PTFE materials.

AFT produce a standard range of Elastomeric and metallic spring energised seals designed to replace O-Rings where the extremes of service are beyond the performance limits of Elastomer materials. But it does not stop there, as AFT have a dedicated team who can design and specify seals to suit almost any application. Shown below are some of our more common designs but if what you need is not shown please contact one of our sales team who will be able to provide solutions for specific applications.



AFT Ltd
Solutions and components in Fluoropolymer Plastics

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Seal Types

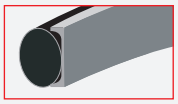
Elastomeric Energiser Material
Selection depends wholly on the service conditions, specifically temperature and media. Options include Viton, Nitrile, Silicone, EPDM and Perfluoroelastomer also Known as Kalrez.

Spring Energiser Material
These would typically be Stainless Steel but for more aggressive environments or to meet NACE approvals, Elgiloy, Hastelloy and Inconel may be selected.

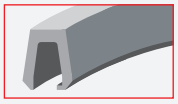
Jacket material is not restricted to just PTFE
Commonly Virgin, Carbon, Graphite, Glass/Moly and Bronze filled PTFE would be used but for applications using non hardened running surfaces Ekonol filled PTFE would be recommended. There are many special blends of PTFE for specific high performance uses and UHMWPE is also commonly used.
All material selection is specific to application.

Products

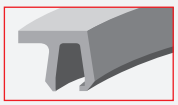
AFAB/R rubber energised PTFE piston and rod seals
These are suitable for use in both single and double acting applications. Typical use would be in reciprocating applications for hydraulic and pneumatic use. Recommended materials would include Bronze filled PTFE, CCA/Moly filled PTFE, Carbon/Graphite filled PTFE and Glass/CCA filled PTFE.



AFBB/R rubber energised PTFE piston and rod seals
These are suitable for use in both single and double acting applications. They are designed to replace standard O-rings where friction reduction and/or increased seal life is required. Typical use would be in reciprocating applications for hydraulic and pneumatic use. Recommended materials would include Carbon filled PTFE and Moly/CCA filled PTFE.



AFVB/R Spring energised PTFE piston and rod seals
This design of seal utilises a PTFE jacket with a 'V' type metallic spring energiser. The seal is only suitable for single acting applications where a very high performance seal is required. Ideally suited for reciprocating applications but can also be used for slowly rotating and oscillating applications. The seal is suitable for both rod and bore configuration.

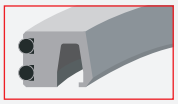


AFVR-R Spring energised rotary shaft seals
This design of seal utilises a PTFE jacket with a 'V' type metallic spring energiser. Specifically suited to single acting rotary applications.

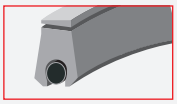
AFCB/R Spring energised PTFE piston and rod seals
This design of seal utilises a PTFE jacket with a helical metallic spring energiser. 'C' series seals are ideally suited for very high pressure applications. The seal is only suitable for single acting very low speed and static applications where a very high performance seal is required. The seal is suitable for both rod and bore configuration.

AFCI/E Spring energised PTFE face seals
This design of seal utilises a PTFE jacket with a helical metallic spring energiser. 'C' series seals are specifically for use in high pressure single acting static applications. The seal can be made to suit either internal or external configuration.

Special Products



Rotary shaft seal with O-ring outer sealing.



O-ring energised rod seal with angled back up ring.