

Spring Energized Seal

Industry: Automotive

Application: Actuator and valve modules for electrified transmissions;
Fuel Cell Regulator Valves for Hydrogen applications

Media: Air, Hydrogen, Fuel, Oil

Description

Spring Energized Seal is a unique high speed alternating and rotatory seal solution developed specifically for modern actuators, valves and regulators. It uses the latest fluoropolymer sealing technology combined with a patented seal lip design to achieve outstanding levels of performance and sealing efficiency.



Features

- High performance fluoropolymer sealing lip
- Sealing one or two medias/media deviation
- High dynamic and static sealing efficiency with lowest leak rates
- Smallest diameters and smallest installation space
- Simple “press fit” design
- Low friction
- Long lifetime of passenger cars and trucks



Application Parameters

- Temperature range: -40°C to +220°C
- Plunger diameter: 2 mm to 30 mm
- Pressure: up to 1.000 bar
- Speed: up to 5 m/s

Product Advantages

- Lowest leak rates
- Reduced CO₂ emissions
- Easy assembly
- Very small installation space
- Best price level
- Easy prototyping
- Efficient production processes