

RULON® LOW FRICTION LIP SEAL

Low Stick Slip & Ultra Low Leakage for Valves, Actuators & Pumps in:

- Thermal Management
- Electric Drive & Transmissions
- Air Management Systems



Challenge

New Requirements of Valve Control



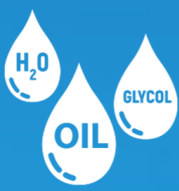
Fast & accurate response due to low stick slip



Low Energy Consumption



Suitable for Rotary & Linear Movement



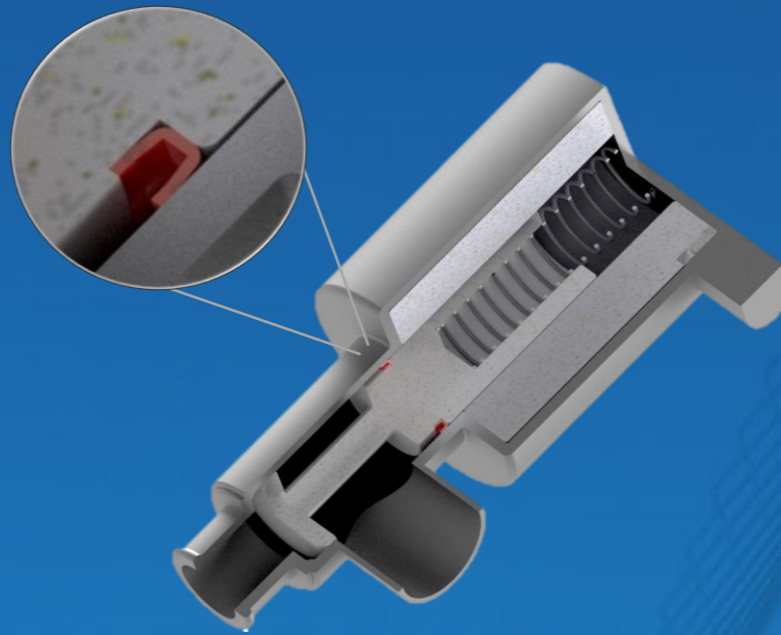
Chemical Resistant against Aggressive Additives



Wide Temperature Range

Solution

Rulon® Low Friction Lip Seal



Optimal control with fast positioning time

Rulon® properties of low friction and drag loss enabling a fast, accurate and reliable movement in rotational and linear direction. The actuation benefits from excellent response characteristics and low variance over lifetime.

Efficient system design at lower weight

The memory effect combined with the flexibility of Rulon® material ensures a low and constant leakage of the seal. The low breakaway force and friction allows a downsizing of the actuator drive resulting in higher efficiency and smaller components with lower costs.

Low Power Consumption

Due to the low actuation force, a low power consumption over lifetime is ensured. This makes our solution suitable for the limited energy supply in hybrid and electric vehicles.

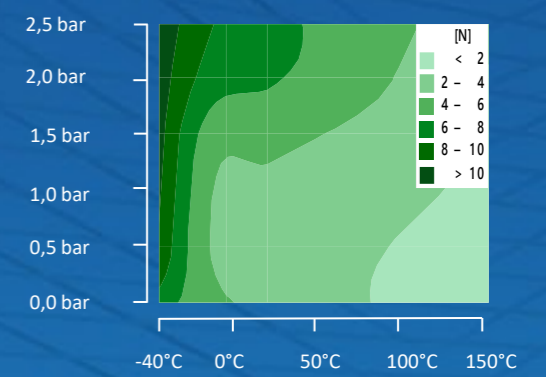
Low Cost Alternative to Machined Seals

Our low friction lip seals generate the possibility for cost reduction, especially for medium and high volume demand, giving the same or better properties than machined Polymer seals.

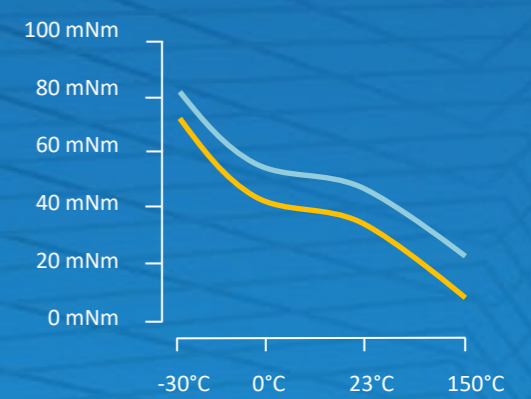
Results

Testing Data Sheet

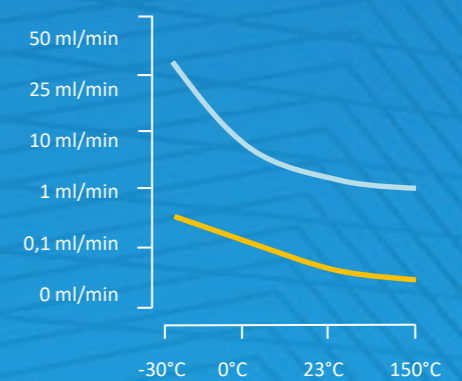
FRICION* (N) (DRY)



TORQUE* (mNm) (DRY/Oil/Water)



Leakage* (ml/min) (Air/Oil/Water)



* Testing Based on specific conditions