

CUSTOM MOLDED SEALS & WIPERS

VIBRATION ABSORBING SEALS FOR LIGHTWEIGHT ASSEMBLIES

When hardware dimensions are affected by high temps a PTFE seal with rubber OD design is the solution

Weight reducing design brings new challenges for seal manufacturers

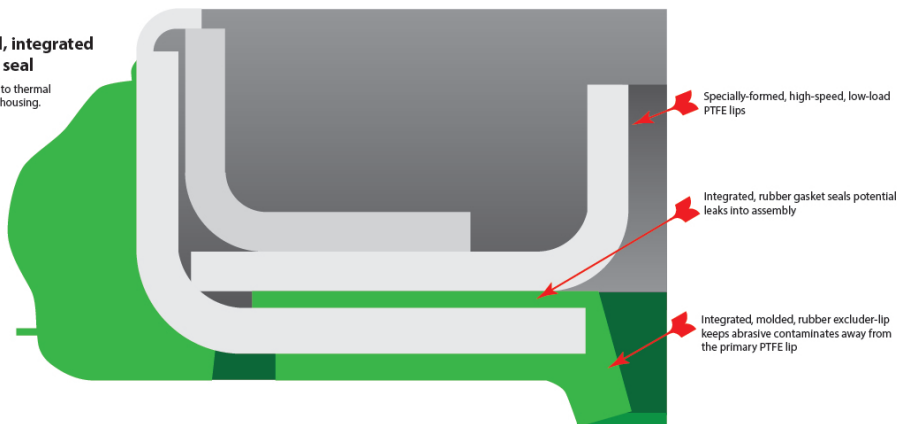
Driven by regulatory emission standards, weight-reducing materials are impacted by vibration, harmonics, and temperatures and cause dimensional changes which threaten the integrity of sealing mechanics. These materials, when used in heavy-duty equipment design, cause components, like seals, to be more affected by dynamic conditions.

Hardware dimensions are now more affected by temperature

Rubber, OD seal design is capable of absorbing vibration because the seal successfully expands or compresses to maintain a constant seal. Vanseal's design accounts for dimensional changes within aluminum, magnesium, and plastic housings, all of which are significantly affected by heat and cold cycles. The design maintains a constant tension between the seal OD and the equipment bore keeping the interface leak free. The component also contains an integrated, molded-rubber, excluder lip to keep abrasive contaminants away from the primary PTFE lip.

Specially-designed, integrated O-Ring, rubber OD seal

Absorbs vibration and adjusts to thermal changes within its aluminium housing.



OD design reduces vibration and warranty issues

Vanseal's OD seal with formed PTFE lip for low-rolling resistance, is comprised of a large O-Ring profile incorporated into a rubber cover. The seal absorbs engine vibrations that tend to make them "walk" out of bore components made from lighter-weight aluminum or magnesium housings. The maintains a constant retention force which holds the seal in place with its positive OD seal.

The vibration-absorbing OD seal design is useful where harmonic vibration and thermal expansion are an issue. The OD design is ideal for applications where harsh fluids and long-term exposure to high temperatures can cause seals to fail before the end of their life expectancy.

A Solid Design You Can Count On

- less frictional heat
- lower coefficient of friction
- generates less torque
- temp rated from -300F to +500F
- lower oil sumps or sump sprays
- resistant to harsh chemicals

IDEAL APPLICATIONS:

- Electric water and fuel pumps
- Air conditioning
- Fans
- Turbochargers
- Superchargers
- Crankcases
- Drivetrains
- Central tire inflation
- Generators & compressors



Founded 1956
Vandalia, Illinois

Vanseal is a premier designer and manufacturer of radial lip and hydraulic rubber seals and mechanical seal components.

We generally serve customers in the automotive, commercial, off-highway, agricultural, fluid power, recreational vehicle and aerospace industries.



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