

WG3 TRIPLE-LIP CARTRIDGE SEAL



**UNIQUE SEAL DESIGN AND MATERIALS TO ADDRESS
TRADITIONALLY PROBLEMATIC SEAL APPLICATIONS**

- **Products With High Viscosity**
- **Dry Running Applications**
- **Unmanned Tank Loading**
- **Physically Aggressive Media**

COMMON APPLICATIONS

- Excellent dry running properties
- Solution for unattended pumps
- Especially reliable for remote locations & pump-to-tanker loading
- Exceptional results on difficult to seal, poorly lubricated, and high viscosity liquids
- FDA regulated fluids and food materials

Asphalt	Fuel Oil	Solvents
Bitumen Black	Glue	Starch
Liquor Calk	Grease	Surfactants
Caustic Fluids	Inks	Syrup Tall Oil
Chocolate	Isocyanate	Tallow Tar TDI
Corn Oil	MDI	Vegetable Oil
Crude Oil	Molasses	Wastewater
Fatty Acids	Resins	Wax

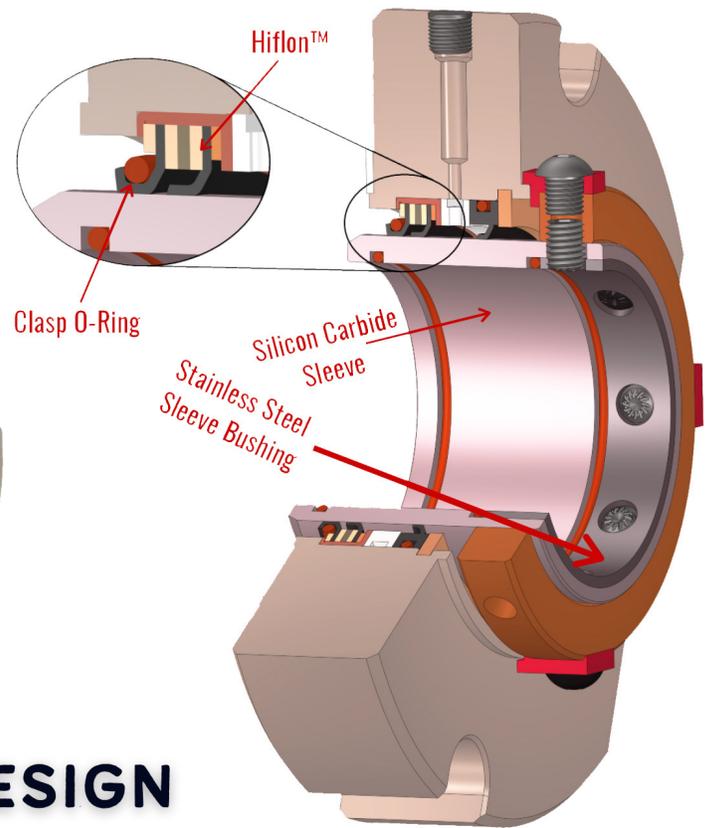
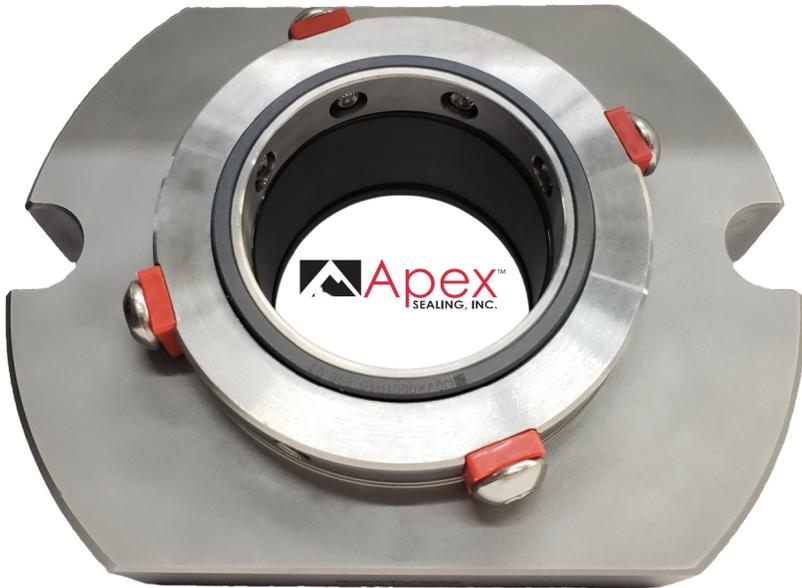


UNIQUE FEATURES

- **Combination of Hiflon™ dynamic lips, silicon carbide sleeves and unique grease compound eliminates “Start-up Seal Stick”**
- **Thick sleeve cross section for added strength**
- **Stainless steel outboard bushing reinforces silicon carbide sleeve and allows for shaft O-ring change out without pump disassembly**
- **Can tolerate large amounts of radial runout (.030” / 0.8 mm) and axial float up (.125” / 3.2 mm)**
- **Clasp O-ring (Aflas or Kalrez standard) loads and reinforces the primary lip throughout the seal’s life**
- **Pressure up to 150 psi**
- **Available in back to back and tandem modes for critical applications with API Plan 54/53/52**
- **Available in a variety of metallic contact materials: SS316, Alloy-20, Hastelloy C276/ C22, Titanium.**
- **Self-aligned design for easy installation.**
- **Bi-directional capability.**
- **Specially formulated grease for reliable lubricant film at the lip to sleeve contact point.**
- **Site repairable (kits available).**



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THE DESIGN

- Instead of a traditional rotating vs. stationary seal face, the WG3 relies on three unique dynamic lip seals, sealing on a rotating silicon carbide sleeve that are all housed in an easy to install, single cartridge.
- The three dynamic lips are constructed from our new proprietary Hiflon™ compound, a uniquely reinforced PTFE material that yields better wear resistance and point of contact lubrication.
- The advanced engineered design of the lip seal contact point, results in an impeccable seal to the radial surface of the silicon carbide sleeve. These design advancements have resulted in a set of dynamic lip seals that have similar operating results as a lubricated mechanical seal face.

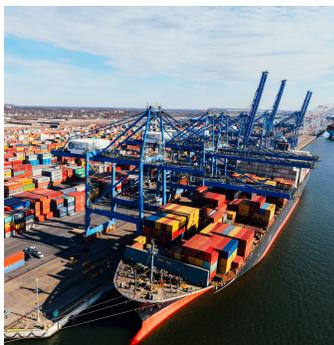
COMMON INDUSTRIES SERVED



Terminal Storage



Oil Field Transport



Barge Pumps



Food Processing