

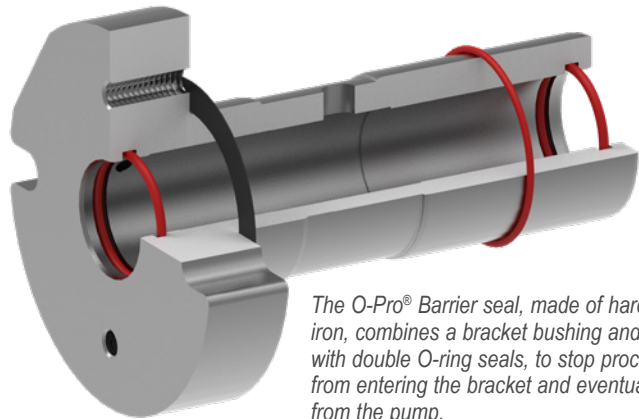
O-PRO® SEAL TECHNOLOGY – SIMPLE, PROVEN & RELIABLE

Viking Pump's patented O-Pro® Seal technology delivers a proven, reliable sealing solution for a wide range of challenging applications and liquids. O-Pro® Seals use a series of O-rings to create a durable seal and integrated lubrication chamber in one design. The O-Pro® Barrier Seal functions as both a seal and bracket bushing, while the O-Pro® Cartridge and O-Pro® Guard Seals offer simple retrofit options for enhanced performance and longevity.

O-PRO® BARRIER SEAL (PATENTED)

HOW IT WORKS:

O-Pro® Barrier seal replaces packing or mechanical seal by occupying the internal bracket cavity with a machined seal gland, utilizing O-rings to seal externally on the bracket and internally on the shaft. A combination of O-rings and lubricating fluid provide a robust seal preventing process fluid from leaking out of the pump. O-Pro® Barrier design also contains lubrication between the shaft and bushing reducing wear.

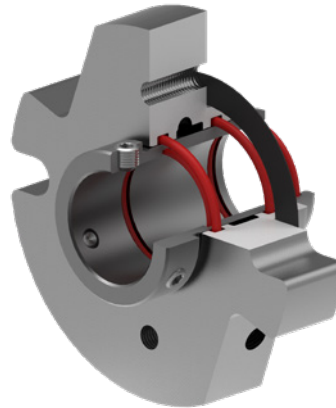


The O-Pro® Barrier seal, made of hardened cast iron, combines a bracket bushing and seal gland, with double O-ring seals, to stop process fluids from entering the bracket and eventually leaking from the pump.

O-PRO® GUARD SEAL (PATENTED)

HOW IT WORKS:

O-Pro® Guard seal replaces packing or mechanical seal by sealing between the bracket, sleeve & shaft surfaces with a series of O-rings. The series of O-rings and lubrication provide a robust seal for many applications. The stainless steel construction utilizes a sleeve that is secured to the shaft to address any shaft wear concerns to ensure superior performance.

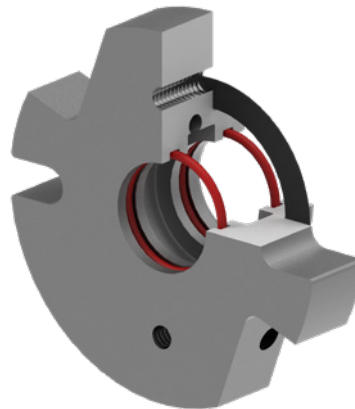


The O-Pro® Guard seal is a compact design for an easy retrofit answer for a leaking pump. Stainless steel construction provides compatibility in many applications.

O-PRO® CARTRIDGE SEAL (PATENTED)

HOW IT WORKS:

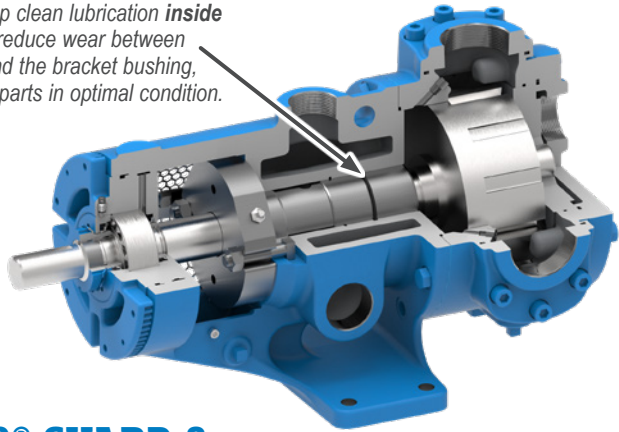
O-Pro® Cartridge seal replaces packing or mechanical seal by using O-rings and gaskets to seal externally on the bracket and internally on the shaft. The combination of O-rings and lubricating fluid provide a robust seal, keeping process fluid from leaking out of the pump. The O-Pro® Cartridge seal allows for an easy retrofit while addressing any need for stainless steel seal construction.



The O-Pro® Cartridge seal is a compact design for an easy retrofit answer for a leaking pump. Stainless steel construction provides compatibility in many applications.

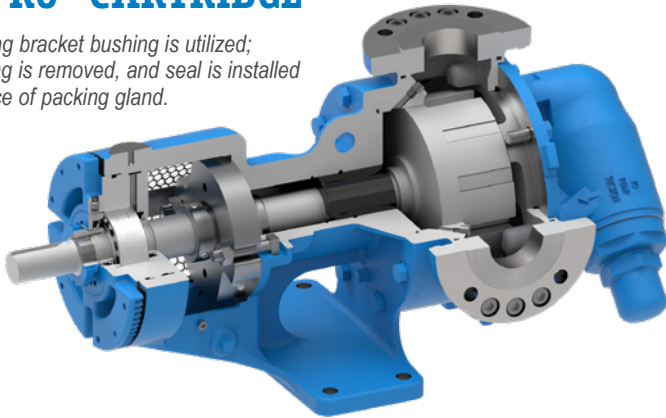
O-PRO® BARRIER

O-Rings trap clean lubrication *inside* the seal to reduce wear between the shaft and the bracket bushing, keeping all parts in optimal condition.



O-PRO® GUARD & O-PRO® CARTRIDGE

Existing bracket bushing is utilized; packing is removed, and seal is installed in place of packing gland.



MAINTENANCE

All O-Pro® seals should be re-greased every 500 hours. The relief fitting enables visual inspection of the grease to ensure no process fluid leaks. Periodic re-tensioning is not required. O-Pro® Guard and O-Pro® Cartridge seals may be removed with the pump in place to replace O-rings, by removing the bearing housing.

RETROFITABILITY

The following existing Viking pump series may be retrofitted to utilize the O-Pro® seals:

124A Series™	224C Series™	127A Series™	227C Series™
124C Series™	4224A Series™	127C Series™	4227A Series™
4124A Series™	4224C Series™	4127A Series™	4227C Series™
4124C Series™	324A Series™	4127C Series™	327A Series™
224A Series™	4324A Series™	227A Series™	4327A Series™

Kits are available with all parts needed for conversion. If shafts are worn, new rotor/shafts may be required for conversion to ensure sealing. Q and QS size brackets ② may require modification or replacement, if using the O-Pro® Barrier, which is not included in the kits.

TYPICAL APPLICATIONS

Inks, paints, molasses, edible oils, corn syrup, honey, lube oil, grease, wax, resins, starch, fats, isocyanates, adhesives and many more!

KIT PART NUMBERS

SEAL TYPE		H-HL	K-KK	L-LL	LS	Q-QS	M	N	R-RS
Gen 4	O-Pro® Barrier ①	3-464-SEAL-K576	3-464-SEAL-K577	3-464-SEAL-K578	3-464-SEAL-K578	3-464-SEAL-K579	N/A	N/A	N/A
	O-Pro® Cartridge	N/A	3-464-SEAL-K503	3-464-SEAL-K505	3-464-SEAL-K505	3-464-SEAL-K506	3-464-SEAL-K507	3-464-SEAL-K508	3-464-SEAL-K509
	O-Pro® Guard	3-464-SEAL-K482	3-464-SEAL-K483	3-464-SEAL-K485	3-464-SEAL-K485	3-464-SEAL-K486	3-464-SEAL-K487	3-464-SEAL-K488	3-464-SEAL-K489
Gen 3	O-Pro® Barrier ②	3-464-SEAL-K450	3-464-SEAL-K451	3-464-SEAL-K452	3-464-SEAL-K453	3-464-SEAL-K454	N/A	3-464-SEAL-K471	3-464-SEAL-K472
	O-Pro® Cartridge	N/A	3-464-SEAL-K503	3-464-SEAL-K504	3-464-SEAL-K505	3-464-SEAL-K506	3-464-SEAL-K507	3-464-SEAL-K508	3-464-SEAL-K509

O-Pro® Guard 3-464-SEAL-K482 3-464-SEAL-K483 3-464-SEAL-K484 3-464-SEAL-K485 3-464-SEAL-K486 3-464-SEAL-K487 3-464-SEAL-K488 3-464-SEAL-K489

NOTE: O-Pro® Cartridge Kit does not contain O-rings. O-ring kit must be purchased separately.

① For use with: 124C Series™, 1124C Series™, 4124C Series™, 224C Series™, 1224C Series™, 4224C Series™, 127C Series™, 4127C Series™, 227C Series™, 4227C Series™

② For use with: 124A Series™, 1124A Series™, 4124A Series™, 224A Series™, 1224A Series™, 4224A Series™, 127A Series™, 4127A Series™, 227A Series™, 4227A Series™

MAXIMUM RPM

SEAL TYPE	H	HL	K	KK	L	LQ	LL	LS	Q	QS	M	N	R	RS
O-Pro® Barrier	1000	1000	780	780	640	640	520	640	470	470	N/A	330	260	260
O-Pro® Cartridge	N/A	N/A	780	780	640	640	520	640	470	470	420	330	260	260
O-Pro® Guard	760	760	520	520	N/A	520	520	520	350	350	350	280	225	225