

# Introducing the ZP Series Advanced Shaft Seal

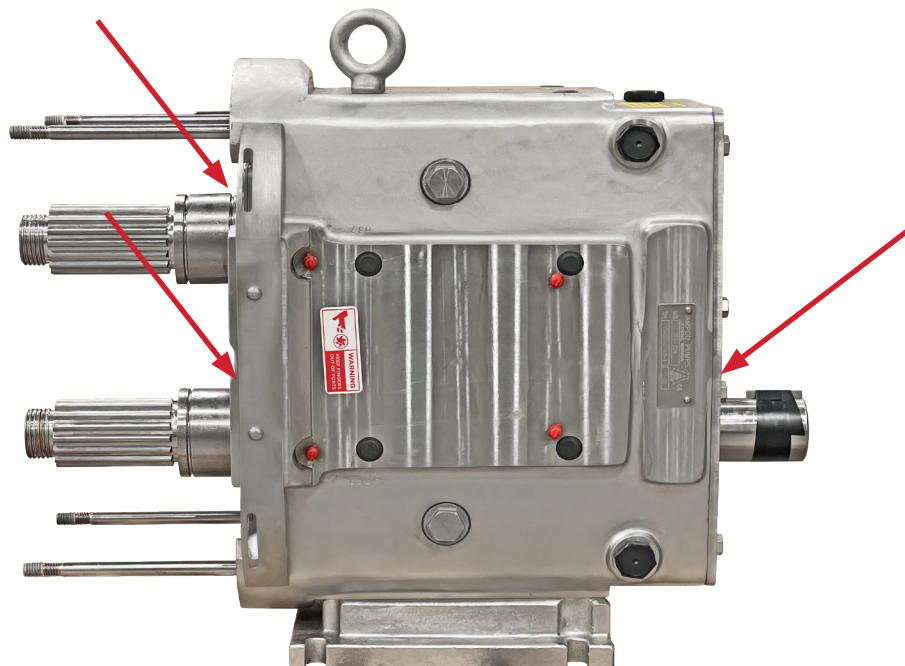
Protection against the #1 leading cause of pump failure — STANDARD on all ZP Series

**NEW advanced Graphite PTFE lip seal design with excluders** for the ZP Series circumferential piston pumps extends pump life and saves on costly repairs by adding an extra layer of protection against contaminants from breaching the inner oil cavities of the gear case.

The advanced design excluders grip the shaft preventing water and contaminants from entering the gear case during high pressure wash downs.

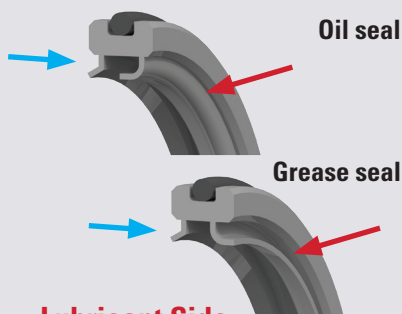
The Graphite PTFE combination offers improved lubricity between the contact of the shaft and sealing lip compared to the old rubber encapsulated, spring loaded lip style oil seals. Overtime, this extends shaft life and reduces the likelihood of contamination from grooving.

**NEW advanced Radial Shaft Seals are now STANDARD on all new ZP Series.**



## Environment Side

Excluder hugs the shaft to provide protection against particulates, debris, and incidental spray.



## Lubricant Side

Sealing Lip firmly grips the shaft and wears away after prolonged use maintaining the shaft integrity. Grooving becomes virtually non-existent.

**NEW Graphite-filled PTFE composition** of the advanced Radial Shaft Seals offers enhanced protection to the exposed portions of the gearcase shafts elevating the pump's washdown performance.



Water and debris enter a gear case past old style shaft seals through high pressure washing causing oil break down and rusting of gears and bearings



Shaft-grooving can develop overtime from traditional spring loaded lip seals causing a pathway for contaminants to enter and allow oil to escape which results in costly and time-consuming shaft and bearing replacement

