

SERIES 500 STYLE

PTFE lip seals are an alternative that bridges the gap between elastomer lip seals and mechanical carbon face seals, particularly in applications where higher pressure, speeds or other harsh conditions go beyond the capabilities of oil seals.

The typical size range is for shaft diameters from .125" (3 mm) to 10" (254 mm).

APPLICATIONS INCLUDE:

- » Separating two different medias on both ends, opposite lip arrangements
- » Suitable for use in centrifugal applications

NORMAL OPERATING CONDITIONS

- » Pressures up to 125 psi (≤ 8 bar) each side
- » Temperatures from -40 °F to 500 °F (-40 °C to 260 °C)
- » Rotary speeds up to 5,000 fpm (≤ 25.4 m/s)



SEALING LIP (ELEMENT)

- » Fits firmly against the shaft, sleeve or sealing surface
- » Prevents contamination or leakage
- » PTFE based materials compounded with fillers depending on applications parameters and requirements

GASKET

- » Prevents sealing media leakage between components
- » Assists in component compression
- » Can be rubber or other specialty material

OUTER CASE

- » Press fit into housing and prevents seal from rotating with the shaft
- » Holds all components in place
- » Custom fit to hardware
- » Materials can be CRS, SS, Aluminum, Brass, or other materials discussed with the engineering team
- » Coating can be applied such as a Boretite and can assist in tighter sealing on bore for less than desired surface finishes, gases, air, or water

INNER CASE/ RETAINER RING/ SPACER

- » Compresses all the components together and controls the bend radius
- » Usually the same materials as the outer case. Spacer can be aluminum

