

## SERIES 100 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:

- » General rotary applications
- » Suitable for use in fans, pumps, compressors, gear-boxes, and engine crank case

### NORMAL OPERATING CONDITIONS

- » Pressures up to 125 psi ( $\leq 8$  bar)
- » Temperatures from  $-40$  °F to  $500$  °F ( $-40$  °C to  $260$  °C)
- » Rotary speeds up to 5,900 fpm ( $\leq 30$  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

- » Compresses all the components together and controls the bend radius
- » Usually the same materials as the outer case

