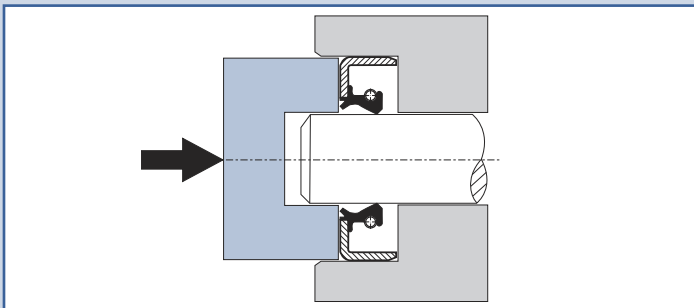


1. Clean seal bore and shaft and remove all burrs and nicks.
2. Pre-lubricate the seal ID and shaft before installing the seal into the cavity. Use a pre-lube that is compatible with the system lubricant. The pre-lube will make the seal easier to install and prevent dry running during initial start-up.
3. Protect seal lip against damage from sharp keyways, splines and screw threads. This can be done by either taping the keyway, inserting an element into the keyway or using an assembly sleeve that fits over the shaft.
4. Point seal lip in correct direction and push to edge of the counterbore.
5. Slide the seal over the shaft to the seal housing. With finger pressure, start seal into housing with a slight rotating motion until seal has a light press fit in the housing. Be sure seal is square or perpendicular to the shaft. If the seal is crooked or cocked, continuing with installation will damage the seal.
6. Finish installation by using a tool appropriate for your seal/housing configuration. Drive seal to final position. If using a plate, the plate diameter should be large enough so it contacts the face of seal housing. This will ensure seal is positioned straight and perpendicular to the shaft.

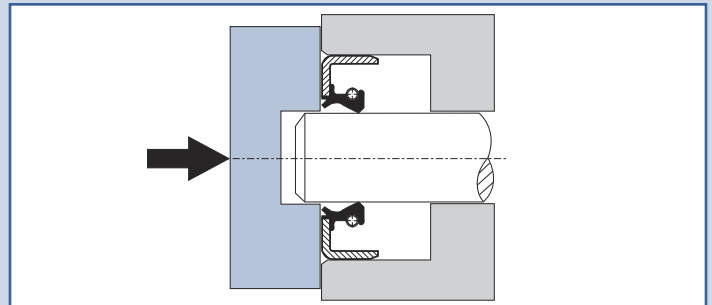
## Counter Bore Installation

Seal is positioned square by seating against counter bore.



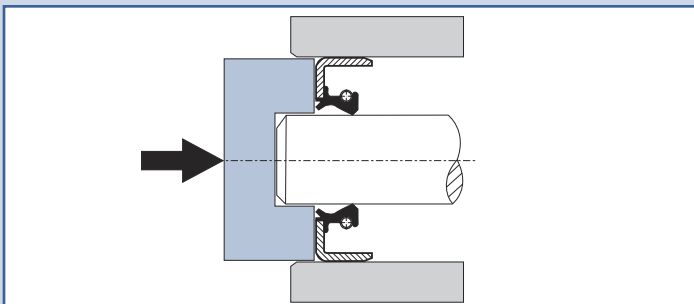
## Counter Bore Installation – Flush Mount

Tool bottoms out against machined face of housing to position seal.



## Through Bore – Recessed Installation

Tool bottoms out against end of shaft to position seal in housing.



## Through Bore – Tool Flush Installation

Tool bottoms out against machined face of housing to position seal.

