

Successful Seal Instructions

- 1. Read entire installation procedure** before beginning installation.
- 2. Handle components carefully.** Careless handling of the critical seal components may result in chipping, cracking or breakage.
- 3. Do not touch sealing areas.** The sealing faces, O-rings, wedges, and bellows must be kept perfectly clean. Even fingerprint can cause a seal to leak. Primary and secondary sealing areas must kept clean and undamaged to ensure a proper seal. Rubber gaskets tear easily when handles carelessly.
- 4.** Make sure that the **shaft or sleeve is free of burrs, nicks, grooves, and sharp edges.**
- 5. Bleed all trapped gases from the seal cavity before start-up,** otherwise the seal cavity may vapor lock and burn the seal.
- 6. All valves must be open on the suction side of the pump** so that the seal is assured of a positive flow of liquid at all times. Failure to do so will also cause the seal to burn.

INSTALLATION INSTRUCTIONS

TYPE 9 SHAFT SEAL

THE SEAL ASSEMBLY CONSISTS OF:

1. STATIONARY SEAT
2. TWO TEFLON WASHERS
3. ROTARY SEAL HEAD

CAUTION: This seal is a precision product and should be handled accordingly. Be especially careful of the lapped sealing surface of the rotary washer and the stationary seat. **KEEP CLEAN. DO NOT SCRATCH.** Use a clean, soft cloth during installation. Protect the faces. Install both the seat and rotary square to the shaft.

STATIONARY SEAT INSTALLATION

Clean the seal seat cavity of the pump backplate (#5). Install one teflon washer (#2) on each side of the seat. Install the seat (#1) squarely into the backside of the backplate with the lapped face down. Install retaining washer (#4) with three 1/4-20 capscrews.

5/8" Seal: Do not tighten capscrews at this time. Install backplate into the pump adapter.

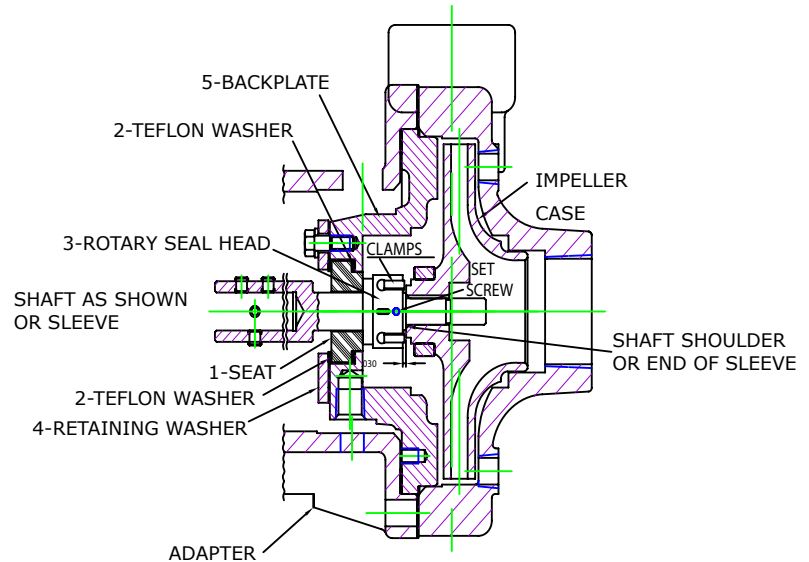
1 1/4" Seal: Tighten retaining washer against seat and gasket. Draw bolts up evenly.

ROTARY SEAL HEAD INSTALLATION

Check lapped faces on the stationary seat and the rotary seal head. Be certain no dirt is on either face. Remove tape from O.D. of the rotary seal head (#3) (DO NOT REMOVE CLAMPS AT THIS TIME). Lubricate the I.D. of the teflon wedge for ease of sliding on the shaft. Slide the rotary seal head on the shaft. Set the back of the rotary seal head .030" from the shoulder of the shaft or sleeve. Tighten set screws to hold the head in place. Remove clamps.

5/8" Seal: Tighten retaining washer against the seat and gasket and draw capscrews up evenly.

5/8" and 1 1/4"
with "CLAMPED-IN" SEAT



5/8" Seal with stub shaft (shown).

1 1/4" Seal has shaft sleeve.

NOTE: Use special care in assembling the seal to avoid damaging the carbon washer of the rotary seal head.

CAUTION: The liquid being handled ensures proper lubrication, never operate dry.

In some cases a short period of operation is required for the seal to set. This will stop any slight leaks.

NOTE: The seal contains a packet of the approved lubricating fluid for seal installation. **DO NOT USE OTHER LUBRICATING LIQUIDS! DO NOT OVER LUBRICATE!** It is not required to use the complete contents of the lubrication packet for seal installation.