

**INSTALLATION INSTRUCTIONS FOR THE CRANE #9  
OR RO DURAMETALLIC SEALS IN SNP PUMPS  
MECHANICAL SEALS SHOULD BE INSTALLED AS ILLUSTRATED BELOW**

Effective | JAN 1983

Note:

1. All traces of old packing must be removed.
2. All nicks, burrs or scratches on shaft must be smoothed with fine emery cloth. Don't forget to thoroughly clean the shaft and stuffing box afterwards.
3. The shaft must be lubricated so the mechanical seal O-Ring will slide on the shaft during installation. Use a grease or an oil compatible with the product being pumped.
4. The polished seal faces (7) must be kept spotlessly clean.
5. Install the spacer sleeve (6) first.
6. Install the rotary seal unit (2), polished face out, on the shaft and then remove and discard the packing tape or clips which keep the springs from falling out during shipment.
7. Install the seal retainer (4) with the stationary seat (3) and gaskets (8) as illustrated. The polished side of the stationary seat should mate with the rotary seal face already on the shaft. The rotary seal unit springs are compressed while the seal retainer nuts are tightened down securely.
8. After installing the seal retainer, remove the pipe plug (5) and tighten all the setscrews (1). Replace the pipe plug.

