

ACCQPrep Injection Valve Rotor Replacement

Instruction Sheet #69-5233-849
Rev. A, March 21, 2018

Overview

The following instructions are for the removal and replacement of the injection valve rotor for the ACCQPrep HP125 system.

Note

The injection valve rotor is a common wear part and is therefore not covered under warranty. Since it is a sealing surface it can be damaged by particulates in the sample. To prolong the life of the rotor, ensure your sample is properly filtered (<20 µm) to prevent premature failure. Failure is evident by leakage from an unexpected port or location such as the sample load port after injection.

Removing the Injection Valve Rotor

1. Use the supplied $\frac{9}{64}$ " hex key to remove the 2 screws that retain the stator (the portion of the inject valve with the tubing connections). These should be loosened in quarter turn increments until the tension is removed and a gap starts to appear (Figure 1).

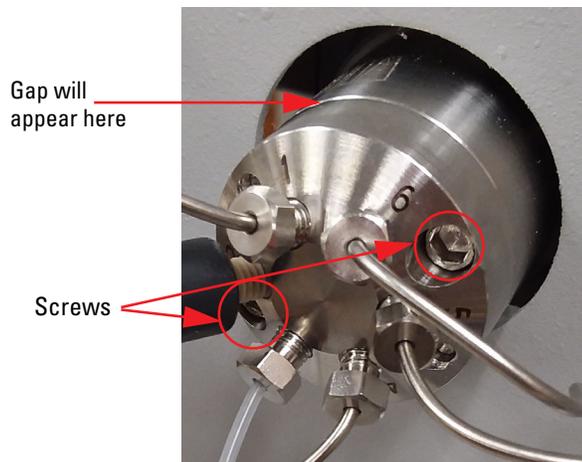


Figure 1: Location of screws on the stator retainer

2. Remove the screws and pull the stator outward. This may require a side-to-side motion until removed.
3. When the stator is removed, use your finger or a small tool to pry the black plastic rotor out of its recess (Figure 2).

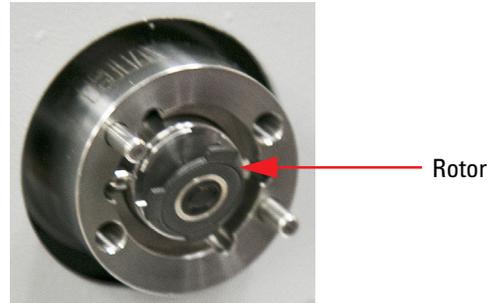


Figure 2: Removing the rotor

4. Usually the failure mode is a visible scratch between the normal passages on the rotor.

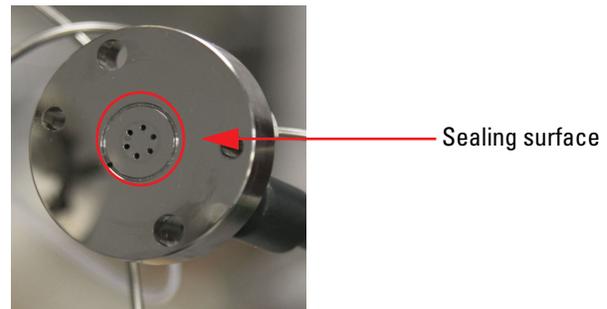


Figure 3: Location of the sealing surface on the stator

5. Clean and inspect the stator sealing surface (which contacts the rotor) for scratches. If this part is scratched it may need replacement also.

Installing the New Injection Valve Rotor

1. Place the new rotor into the recess with the passages facing outward. The tabs on the rotor are not symmetric so the rotor will only fit in one orientation.
2. Install the stator onto the locating pins and use a side-to-side motion until secure.
3. Install the screws evenly until spring force is felt. Then tighten the screws in quarter turn increments on each side until the stator contacts the valve body evenly. The rotor seal is accomplished by a spring so excessive screw torque is not necessary.

Teledyne Isco

P.O. Box 82531, Lincoln, Nebraska, 68501 USA
Toll-free: (800) 775-2965 • Phone: (402) 464-0231 • Fax: (402) 465-3001
E-mail: IscoService@teledyne.com

Teledyne Isco is continually improving its products and reserves the right to change product specifications, replacement parts, schematics, and instructions without notice.



Use and Disclosure of Data

Information contained herein is classified as EAR99 under US Export Administration Regulations. Export, re-export, or diversion contrary to U.S. law is prohibited.