

MAINTENANCE INSTRUCTIONS

76 mm (3") FULL-STROKE INTEGRAL PISTON DIAPHRAGM (FSIPD)

CAUTION:

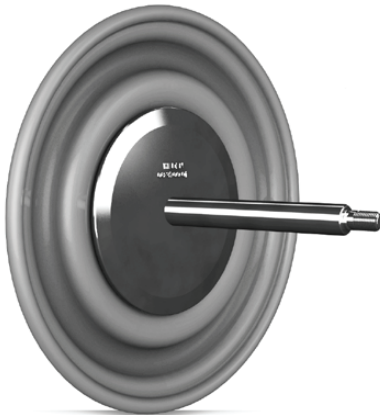
Before any maintenance or repair is attempted, the compressed air line to the pump should be disconnected and all air pressure allowed to bleed from the pump. Disconnect all intake, discharge and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container. Be aware of any hazardous effects of contact with your process fluid.

NOTE:

Your specific pump model may vary from the configuration shown.

TOOLS REQUIRED:

- Diaphragm Installation Tools (99-8985-20)
- Mechanic's Gloves
- Vise
- Rod or Pipe [approx. 91 cm (3 ft) to 122 cm (4 ft)]



Step 1.

Figure 1

Place and spin one (1) FSIPD onto the shaft, along with the inner piston. **NOTE:** The inner piston (P/N: 08-3700-01) incorporates an inner bead groove that is unused in the FSIPD application.



Step 2.

Figure 2

Assemble the shaft and the FSIPD onto the center section.



Step 3.

Figure 3

Install one (1) liquid chamber.



Step 4.

Figure 4a



Figure 4b

Now, place the liquid chamber and center-section assembly on a rod or pipe that can be held in a vise. The rod will allow the use of both hands in order to tighten the second diaphragm onto the shaft.

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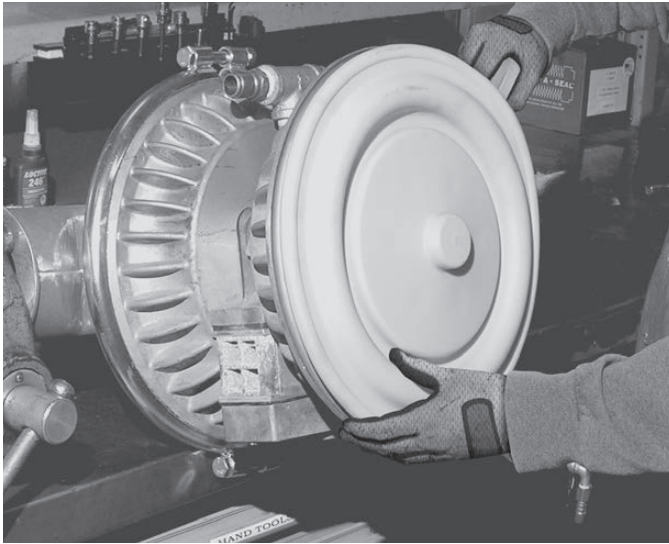


Figure 5a

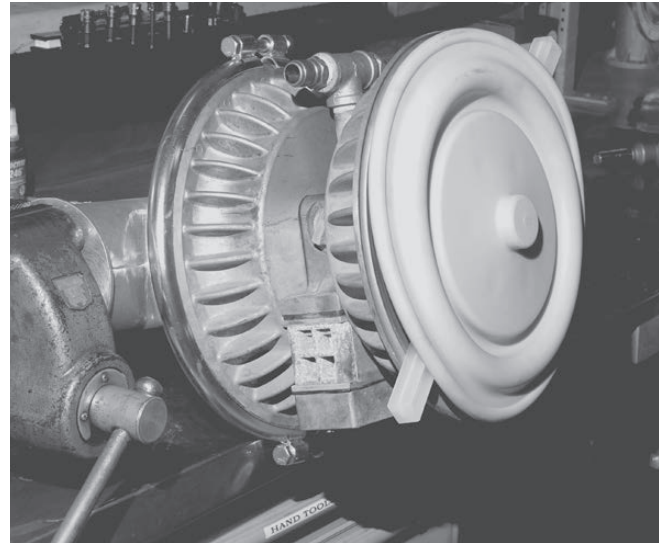


Figure 5b

Step 5.

Using the plastic wedges provided in your kit, wedge them around the diaphragm as shown. Do not use screwdrivers or other levers that may damage the diaphragm. Leave the wedges in-place while tightening the diaphragm to avoid pinching fingers.

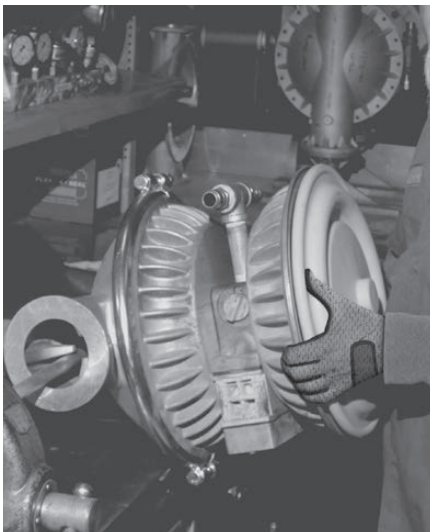


Figure 6

Step 6.

Turn the diaphragm by hand to secure it on the shaft. Do not use any tool that may damage the diaphragm. Approximately 135 N•m (100 ft-lb) of torque is needed to install the FSIPD diaphragm.

NOTE: It is not possible to over-tighten these diaphragms by hand.

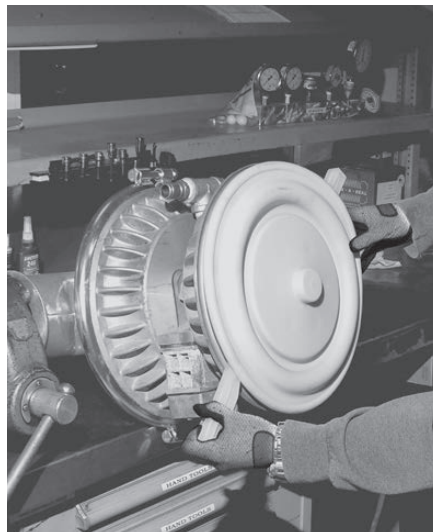


Figure 7a

Step 7.

For best results, allow the diaphragm to set for a few minutes following the initial torqueing. Apply hand-torque method again, you can expect between 5 and 10 degrees of rotation. Next, install the second liquid chamber and continue rebuilding the pump as indicated your pump's Engineering, Operation and Maintenance (EOM) manual.



Figure 7b

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