

Diaphragm Valve Replacement

TDF26

Revised: 7-13-2022 RJC

1. Flush out the HCl lines. Select a Function a. Turn on the instrument. b. Rinse the HCl or Acetic Acid container and fill it with IDF/SDF TD distilled water. c. On the main screen of the control panel press the Diagnostics **Diagnostics** button. Diagnostics 4 d. On the Diagnostics screen press the Line Charge button. Valve Test Fault e. On the Line Charge screen press the HCl button. Motor Te The instrument will automatically begin to pump the water from the Acetic Acid or HCl container through the Line Charg instrument. f. Repeat step e to ensure the lines are clean of any acid. 4 Line Charge g. Press the back button twice to set the control panel back to the Select a Function screen. 2. Turn off the instrument. Turn off the nitrogen source. 3. 4. Carefully cut the 2 cable ties that hold the long black neoprene tube to the enzyme tubing bundle. Cable ties Figure 1 5. Remove the barbed coupling from the end of the long black neoprene tube by pulling the coupling straight out. Label Carefully cut off the HCl or Acetic Acid label on the long black 6. neoprene tube. Barbed coupling Figure 2

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7.	Carefully cut the cable tie that holds the long black neoprene tube to the air lines and power cord.	Figure 3
8.	Pull the long black neoprene tube out of the hole in the side of the instrument.	¥
9.	Disconnect the short black tube from the six port fitting underneath the manifold. Manifold Short black tube	Figure 4
10.	Disconnect the blue pneumatic tube from the fitting on the diaphragm valve by pushing downward on the flange and pulling up on the tube simultaneously. Blue pneumatic tube	Image: Weight of the second
11.	Remove the two nuts holding the bracket to the front panel of the instrument using a 3/8" socket and remove the old Diaphragm Valve Assembly.	Figure 6
12.	Attach the new Diaphragm Valve Assembly to the front panel of the instrument with the two nuts and a 3/8" socket. See to Figure 6.	
13.	Reattach the blue pneumatic tube by pushing it into the fitting on the diaphragm. See Figure 5.	5-986-8090 ● Fax: 315-986-8091
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14.	Reattach the short black tube to the six-port fitting underneath the manifold. See Figure 4.	
15.	Feed the long black neoprene tube over the enzyme pinch valve, down the inside of the left support leg and out through the hole in the side of the instrument so it comes out next to the HCl or Acetic Acid container. Left support leg - Enzyme pinch valve	
16.	Using the 7 ¹ / ₂ " cable tie, secure the long black neoprene tube to the air lines and power cord. See Figure 3.	Figure 7
17.	Reattach the barbed coupling to the end of the long black neoprene tube. See Figure 2.	
18.	Put a new HCl or Acetic Acid label on the end of the long black neoprene tube. See Figure 2.	
19.	Using the two 4" cable ties, secure the black neoprene tube to the enzyme tubing bundle. See Figure 1.	
20.	Test the newly installed TDF26 Diaphragm Valve Assembly.	
	a. Repeat step 1, running a line charge from the HCl or Acetic Acid container. Make sure there is water in the container before starting the test.	
	 b. Observe the fluid level in the container to be sure the Diaphragm Valve is opening properly. You should see the fluid level drop in the container. 	
21.	Empty the HCl or Acetic Acid container of any remaining water. The TDF Instrument is now ready to be returned to service.	
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