

## Encore® HD Pump Pinch Valve Replacement



**WARNING:** Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.



**CAUTION:** Before placing the pinch valve body in a vise, pad the jaws. Tighten the vise only enough to hold the valve body firmly. Failure to observe may result in damage to the pinch valve body.

### Preparation

See Figure 1.

1. Make sure equipment is powered down, then label and disconnect the powder and air tubing from the pump.
2. Remove the two socket-head screws from the front of the pump to remove the pump from the control panel.
3. Remove the socket-head screw, lock washers, and flat washers from the lower manifold.
4. Separate the pinch valve body from the manifolds (Figure 1).



**CAUTION:** Refer to the pump manual for more information. The word “UP” is embossed in the top of the valve body



Figure 1 Pinch Valve Body (Top “UP” view)

### Pinch Valve Removal

See Figure 2.

1. Place the pinch valve body in a padded vise.
2. Grasp the bottom flange of a pinch valve with pliers or by one hand and pull it away from the pinch valve body.



Figure 2 Pinch Valve Removal

## Pinch Valve Removal *(contd)*

See Figure 3.

3. Cut the flange off with scissors, then grasp the flange of the valve and pull it out of the top of the pinch valve body.



Figure 3 Pinch Valve Removal

## Pinch Valve Installation

1. Insert the insertion tool through one of the valve chambers, then insert the flange of the pinch valve into the opposite end of the insertion tool.

Align the pinch valve point to the center of the pinch valve housing (see inset).

2. Drag the valve through the chamber and check the alignment of the pinch valve in the housing. The top of the pinch valve should go first through the "UP" side of the housing (see Figure 9).



Figure 4 Inserting Pinch Valve with the Insertion Tool

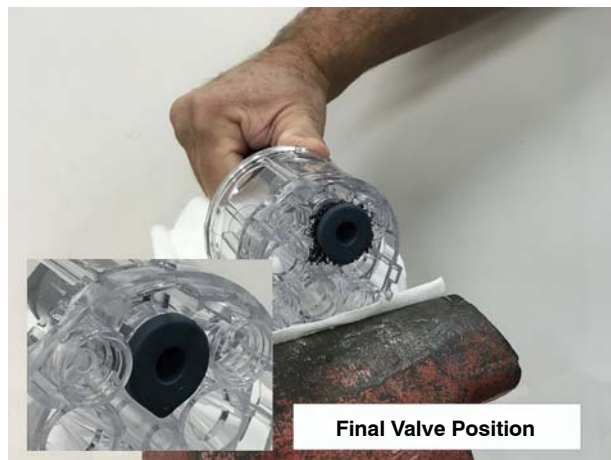


Figure 5 Pulling the valve through the chamber.

3. Pull on the insertion tool until the end of the pinch valve is inside the valve body.



Figure 6 Pulling Pinch Valve into Valve Body

4. Continue pulling on the insertion tool until the pinch valve pops through the valve body and the tool comes loose.



Figure 7 Pulling Pinch Valve through Valve Body

5. Pull the pinch valve bottom flange away to check the alignment of the valve ribs with the square grooves in the valve body. Pull and twist the pinch valve to align the ribs with the grooves as necessary (Figure 8).

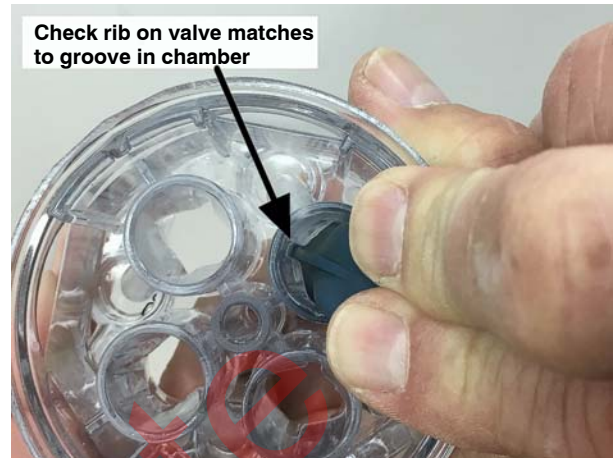


Figure 8 Pinch Valve Position

6. The pinch valve kit comes with replacement filters and gaskets (Figure 9). Install the remaining pinch valves in the valve body, install new filter discs and gaskets, then reassemble the pump.



**CAUTION:** Reassemble the pinch valve housing and the lower Y block to the upper Y block until it stops against the upper block. See pump manual for reassembly instructions.

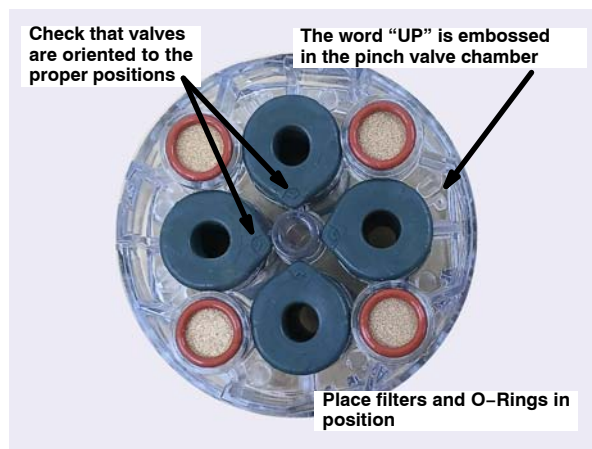


Figure 9 Pinch Valve kit

## 4 Encore® HD Pump Pinch Valve Replacement

Obsolete

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