



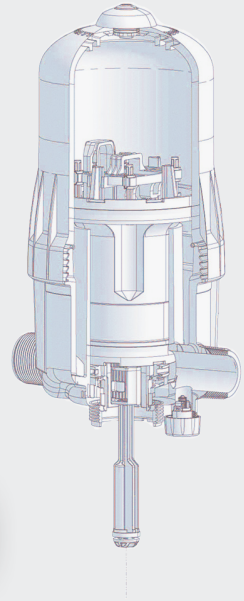
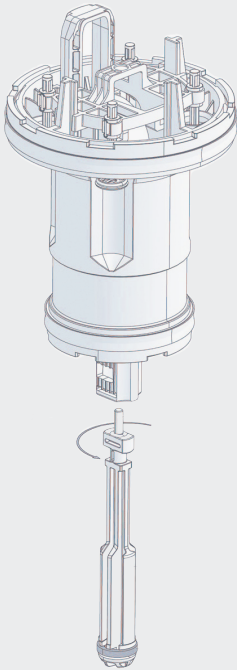
DOSATRON®

WATER POWERED DOSING TECHNOLOGY

Piston Flange Kit

D40 Series Part #: PPDI065

ENGLISH



GENUINE
DOSATRON
PARTS

D40 SERIES
Part #: PPDI065

Piston Kit Includes:

Omega Spring

Connecting Rod

Push Rod Seal

Upper Flange






Lower Flange

Dosatron Piston Flange Kit

This kit is for the Dosatron D40 Series

Part #: PPDI065

Piston Flange Kit Contents:

PDI1216 - Omega Spring	
PDI1086 - Connecting Rod	
PDI1085 - Push Rod Seal	
PDI1093 - Upper Flange	
PDI1092 - Lower Flange	



Remember to wear proper protection when performing maintenance such as gloves, eyewear, and apron.

Piston Kit Instructions



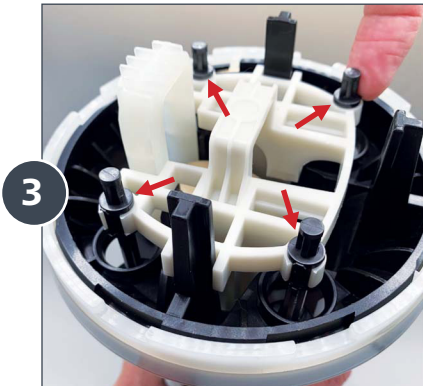
Unscrew and remove the bell housing, you may use a universal strap wrench.

Remove the Piston from your Dosatron injector.

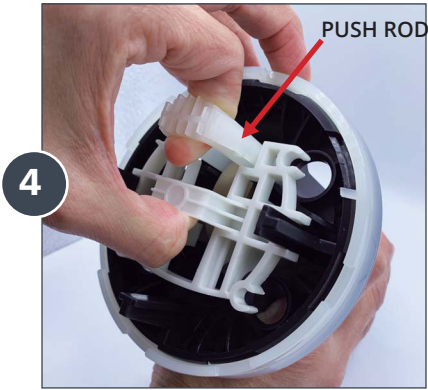
Pull the piston out of the body and set the bell housing and body aside.



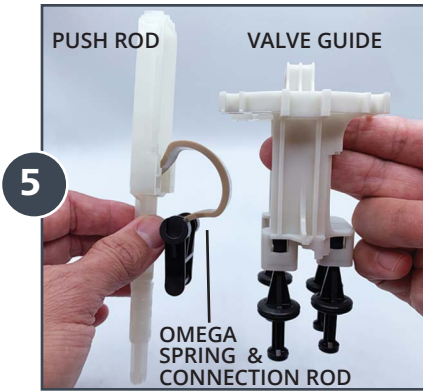
Remove the Plunger from the piston by rotating it a quarter of a turn counterclockwise.



Dislodge the 4 black Upper Valves by pushing out on the top tab of each Valve.



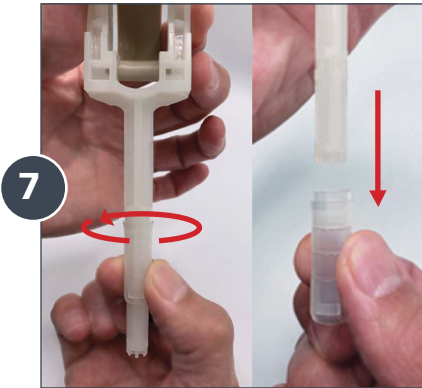
Raise the Push Rod carefully and pull the piston's mechanism up and out of black piston shell.



It will probably come out in either two or three pieces. The first is the Valve Guide and the others are the Push Rod, Omega Spring and Connecting Rod.

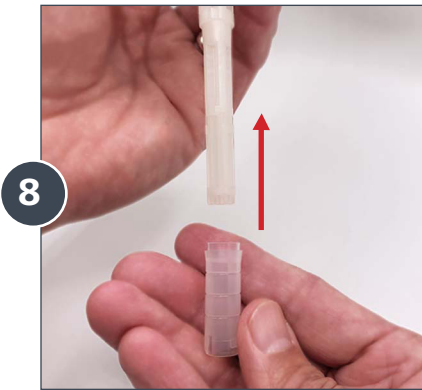


Remove the Piston Maintenance Kit (**PPDI065**) items from the bag and set aside.



CHANGING THE PUSH ROD SEAL, OMEGA SPRING AND CONNECTION ROD:

Locate the Push Rod Seal and twist it a quarter turn counterclockwise and slide down and off the Push Rod.



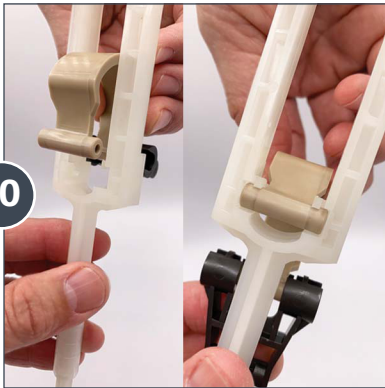
Slide the **NEW Push Rod Seal (PDI1085)** onto the Push Rod with the tapered end on the Push Rod. When in position, rotate the Push Rod Seal a quarter turn clockwise to lock into place.



Next, pick up the beige **Omega Spring (PDI1216)** and black **Connecting Rod (PDI1086)** from the new kit.

Slide one end of the Omega Spring into the channel on the Connecting Rod (parts in the kit may already be connected).

10



Snap the other end of the Omega Springs into the Push Rod as shown. Set the parts aside and pick up the piston assembly.

11

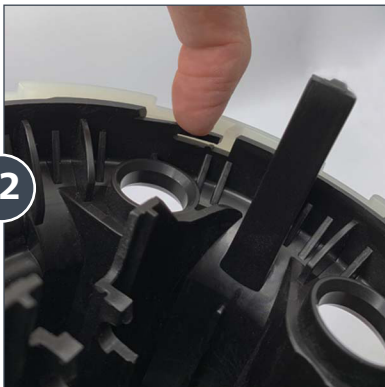


TO CHANGE THE PISTON FLANGES:

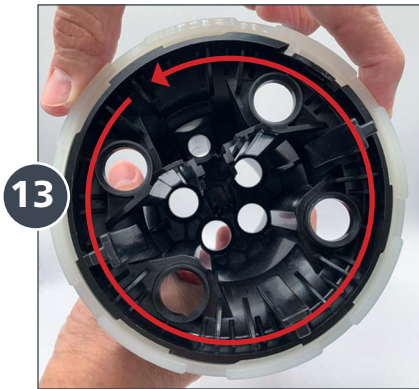
UPPER FLANGE

On the Upper Flange, locate the white Tooth on the inside of the Lock Ring.

12



Press down on the Lock Lever directly next to the Tooth.



Rotate the white Lock Ring about $\frac{3}{4}$ of an inch counterclockwise to unlock, making sure the white tooth slides above the black lever.



Slide the white Lock Ring and Upper Flange up and off the black piston Shell.



Pick up the **NEW Upper Flange (PDI1093)** and slide it onto the piston shell with the **V** shape opening facing downward, and flat edge facing up. Push down until it sits on the ledge of the black piston shell.



Hold the white Lock Ring with the flat edge facing down towards the Piston, and place the Lock Ring on top of the NEW Upper Flange.

The tabs on the inside of the Lock Ring should align with the gaps around the edge of the Piston Shell; and the white Tooth and black Lock Lever should be close together.



Push Down on the Lock Ring so that the flat edge touches the top of the white Flange.

Then, rotate the Lock Ring $\frac{3}{4}$ of an inch turn clockwise to lock it into place.



LOWER FLANGE

On the Lower Flange, locate the white Tooth on the inside of the Lock Ring.

19



Press down on the Lock Lever directly next to the tooth.

20



Rotate the Lock Ring about $\frac{1}{2}$ on an inch clockwise to unlock, making sure the white tooth slides on top of the lever.

21



Slide the Lock Ring and Lower Flange up and off the black piston shell.

22



Pick up the **NEW Lower Flange (PDI1092)** and slide it onto the piston shell, with the **V** shape opening facing downward and flat edge facing up. Push down until it sits on the edge of the black piston shell.

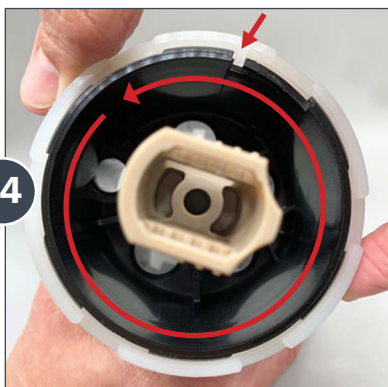
23



Hold the white Lock Ring with the flat edge facing down towards the Piston, and place the Lock Ring on top of the **NEW Lower Flange**.

The tabs on the inside of the Lock Ring should align with the gaps around the edge of the Piston Shell; and the white Tooth and black Lock Lever should be close together.

24



Push Down on the Lock Ring so that the flat edge touches the top of the white Flange.

Then, rotate the Lock Ring 1/2 of an inch turn counterclockwise to lock it into place.



TO ASSEMBLE THE INSIDE OF THE PISTON

Inside the Piston Shell are 8 holes the same size, 4 for the Lower Valves (center holes) and 4 for the upper valves (top holes).

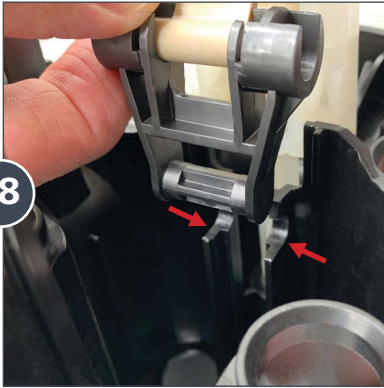


There is also a single smaller hole for the Push Rod Assembly.



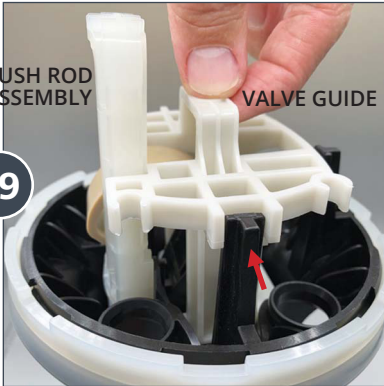
Insert the Push Rod Assembly inside the smaller hole with the top curved portion facing outward (following the curve of the piston).

28



Make sure the Connecting Rod drops into the notches inside the piston shell.

29



Align the Valve Rack next to the Push Rod Assembly making sure the Guide aligns with the black posts on the piston shell, and the Lower Valves align with the 4 center openings.

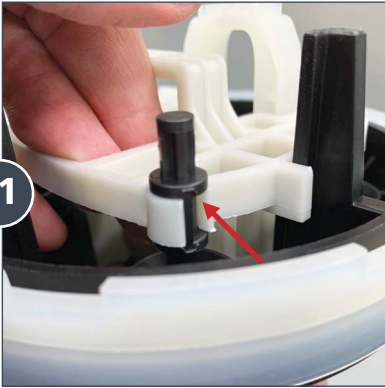
NOTE: You may have to lift the Push Rod Assembly and reposition both assemblies inside the piston shell simultaneously. Make sure the Connecting Rod drops into the notches inside the piston shell again.

30



Carefully begin pressing the mechanism (both assemblies) into place inside the piston shell and double check the alignment of both sections.

31



Snap one of the Upper Valves into the Valve Guide.

32



Now, test the piston assembly by carefully pulling the Push Rod up until you hear a click, then snap the last 3 Valves back on.

33



Insert the Plunger back into the Piston and rotate it a quarter of a turn clockwise to lock it into place.

34



Insert the Piston back into the Dosatron injector and screw the Bell Housing back on.

35



You have completed the steps to replace the Piston Flange Kit on your D40 Dosatron injector.

If you have any questions, call **1-800-523-8449** or to **CHAT** visit **www.dosatronusa.com**.



DOSATRON[®]

WATER POWERED DOSING TECHNOLOGY

2090 Sunnydale Blvd. • Clearwater, FL 33765

1-800-523-8499 • www.dosatronusa.com



LIT-EN-PPDI065