



# CHEMICAL DELIVERY SYSTEM SERVICE KIT FOR CPS2

**PART N° 33516-B**

## **READ THIS BEFORE SERVICING**

- ALWAYS WEAR SAFETY GOGGLES AND GLOVES WHEN SERVICING THE PERISTALTIC PUMPS OR CHEMICAL FEED LINES.
- IT IS ADVISED TO (IF POSSIBLE) FLUSH THE CHEMICAL LINE(S) WITH FRESH WATER BEFORE SERVICING TO REDUCE THE CHANCE OF CHEMICAL SPILLAGE.
- ALWAYS ENSURE THERE IS PLENTY OF FRESH WATER READILY AVAILABLE TO RINSE ANY SPILLED CHEMICALS, OR TOOLS / CLOTHING / SKIN / EYES, ETC. EXPOSED TO CHEMICALS.

**WARNING:** Extreme care must be taken when working with acid and chlorine lines. These line can potentially be pressurised. Always wear safety glasses and gloves when disconnecting or cutting lines. Have fresh water at hand to rinse tools and parts exposed to acid and/or liquid chlorine.

**NEVER ALLOW LIQUID CHLORINE AND HYDROCHLORIC ACID TO MIX. EXTREMELY DANGEROUS CHLORINE GAS CAN BE PRODUCED. IF THIS OCCURS EVACUATE THE AREA.**

To reduce the chance of accidental mixing of chemicals, it is recommended that if you are working with both acid and liquid chlorine delivery systems that you only work with one at a time and wash away any spilled chemicals with plenty of fresh water before working on the other delivery system.

## **FLUSHING THE CHEMICAL LINES**

**NOTE: THIS PROCEDURE IS NOT 100% GUARENTEED TO SUCCESSFULLY FLUSH THE LINES, ESPECIALLY IF THE PERISTALTIC PUMP HAS NOT WORKING CORRECTLY. DUE CARE AND SAFETY PRECAUTIONS MUST ALWAYS BE TAKEN WHEN WORKING WITH CHEMICAL FEED LINES AND PERISTALTIC PUMP PARTS.**

### **AP AND CP FUNCTIONS**

In the “user variables” menu there are 2 functions which allow you to run the acid and liquid chlorine peristaltic pumps for 60 seconds. This allows you to check if they are operating, and to flush chemicals out of them when performing maintenance.

Disconnect the chemical feed line from the chemical drum and place the end of the line into a bucket of fresh water

**AP (ACID PUMP) FUNCTION** - Filter pump must be running for peristaltic pumps to engage. Enter the “user variables” menu by holding the **UP** button for 5 seconds. Once CL display reads **P**, use **UP** button to scroll until CL display reads **AP** and pH display reads **00**. Pressing the DOWN button will begin a countdown in the pH display from 60 to 00. The peristaltic pump for feeding acid will engage for the length of the countdown.

**CP (CHLORINE PUMP) FUNCTION (if applicable)** - Filter pump must be running for peristaltic pumps to engage. Enter the “user variables” menu by holding the **UP** button for 5 seconds. Once CL display reads **P**, use **UP** button to scroll until CL display reads **CP** and pH display reads **00**. Pressing the DOWN button will begin a countdown in the pH display from 60 to 00.

**CPS2 models:** The salt chlorinator will switch to 100% production for the length of the countdown.

**CPS3 and COMM1000 models:** The peristaltic pump for feeding liquid chlorine will engage for the length of this countdown.

Allow the countdown to complete and repeat the process at least one more time.




**Turn the filtration system OFF before proceeding....**

**- REMOVE OLD ACID DRUM CAP AND REPLACE WITH NEW ACID DRUM CAP**

**- REMOVE OLD CHLORINE DRUM CAP AND REPLACE WITH NEW CHLORINE DRUM CAP**

**- REMOVE OLD CHEMICAL FEED LINES AND REPLACE WITH NEW CHEMICAL FEED LINES**

**KITS CONTAINS:**

Qty	Description	Image
1	PART N° 55506-BLACK INJECTOR VALVE	
1	PART N° 32554-12-ACID-B PERISTALTIC PUMP ROLLER KIT AND SANTOPRENE SQUEEZE TUBE ASSEMBLY.	
1	PART N° 32655-1B CHEMICAL FEED TUBE 8M	
1	PART N° 32523-2B ACID DRUM CAP WITH FUME STOP, LOCKING NUT AND O-RING.	

## INSTALLATION PROCEDURE FOR INJECTOR VALVE

### IN-LINE INSTALLATION.

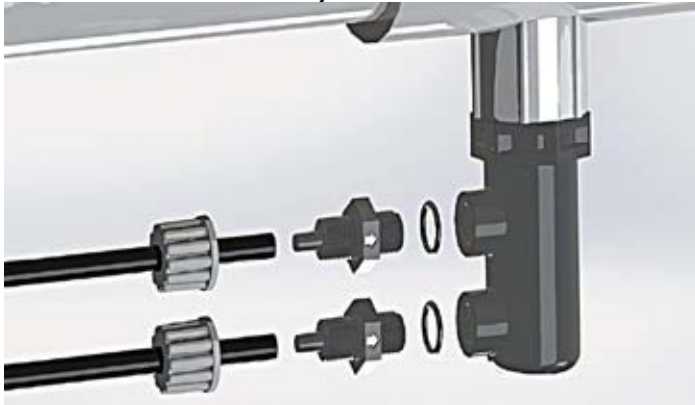
1. Select location for in-line check valve - this should be between the injection point and the peristaltic pump (preferably closer to the injection point).
2. With the filtration system turned off, and wearing safety glasses and gloves.... carefully cut the line at the desired location (or remove existing valve from location). Rinse any tools exposed to chemicals immediately, and wash away any spilled chemicals with plenty of fresh water.
3. If replacing an existing valve it is a good idea to trim back the flared end of the line by approximately 1cm. Fit the new nuts to the line, observe the direction of flow and push the tubing onto the injector valve body. Tighten both nuts.



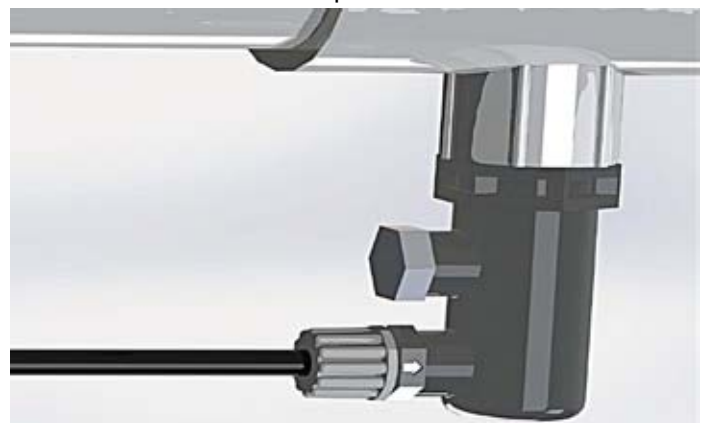
### DUAL PORT INSTALLATION

1. Remove the tube nut at the outlet end of the injector valve.
2. With the filtration system turned off, and wearing safety glasses and gloves.... Carefully remove the tube nut from the existing injector valve, and remove the feed line. Wash away any spilled chemicals with plenty of fresh water.
3. Remove the old injector valve from the dual port injector housing **WARNING:** be prepared for water to come out of the port, especially if the injector is below water level. Have the new injector valve ready to replace it immediately if possible. If the injector is significantly below water level, then it may help to close the isolating valves for this line, but some water will always come out at this point unless the injector is above water level and under vacuum.
4. Fit the new injector valve with the o-ring end towards the dual port injector housing.
5. Trim back the feed line by approximately 1cm and replace old tube nut with the new nut supplied. Rinse any tools exposed to chemicals immediately with fresh water.
6. Push the feed line tube onto the injector valve, and tighten the nut.

Dual Port Injector with both acid and liquid chlorine injection.

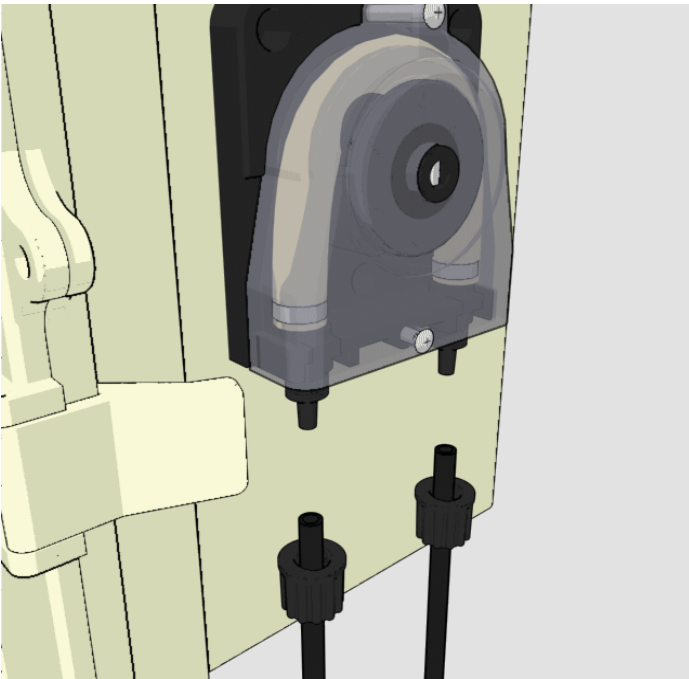
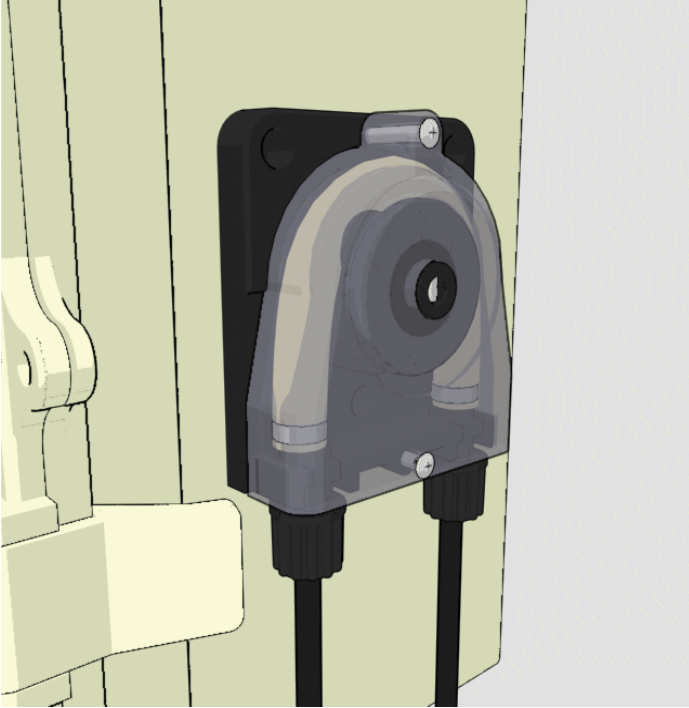


Dual port Injector assembled. Acid feed only, with liquid chlorine port blocked.

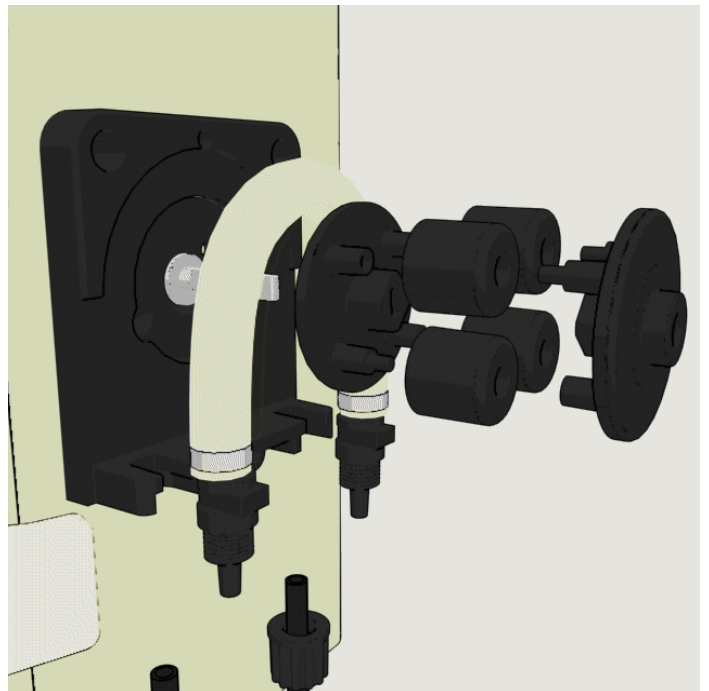
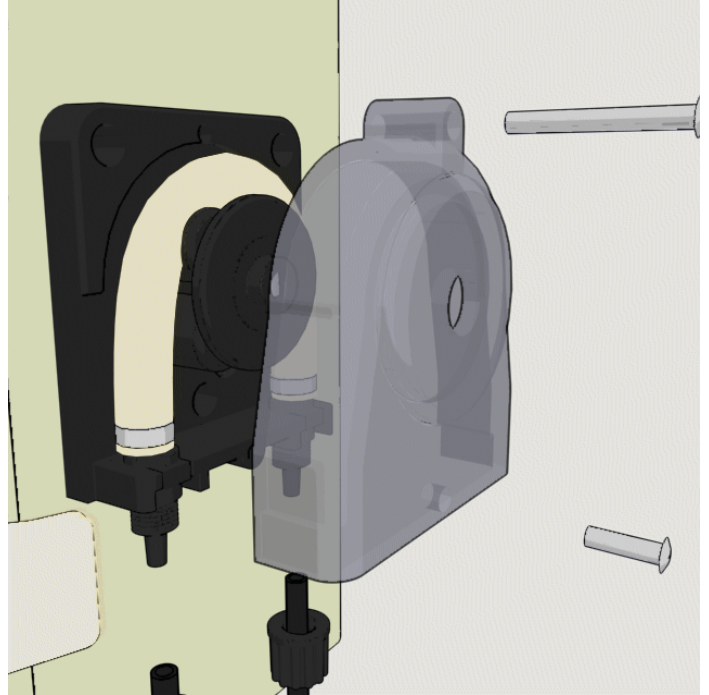


## INSTALLATION PROCEDURE FOR PERISTALTIC PUMP ROLLER KIT WITH SANTOPRENE SQUEEZE TUBE ASSEMBLY.

I. Unscrew nuts securing tubes to pump, and disconnect tubes from pump.



II. Remove screw securing clear plastic cover. Remove cover, used squeeze tube and used roller assembly.

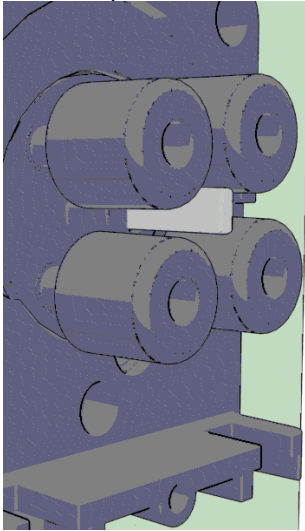


NOTE: Use a flat head screwdriver as a lever to remove old roller assembly.

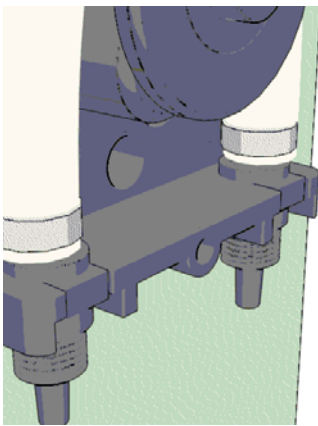
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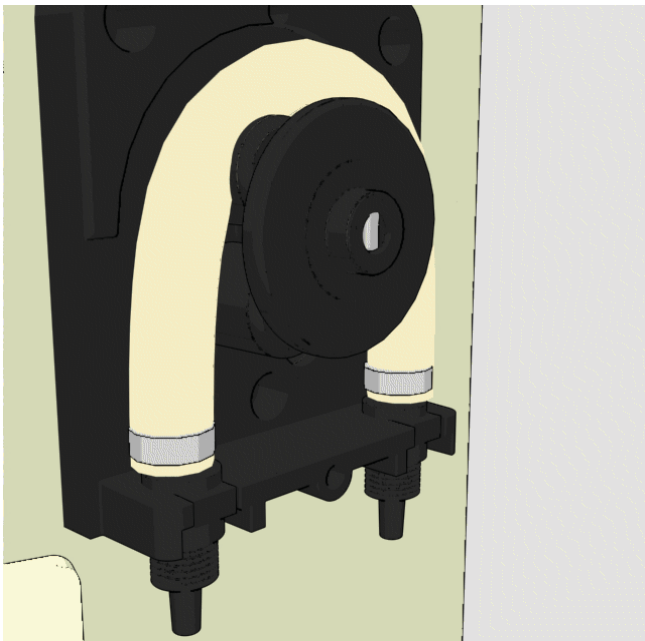
**III.** Install new roller assembly and squeeze tube. Ensure new components are oriented as shown.



NOTE ORIENTATION  
OF ROLLERS WITH  
CURVED EDGE OUT



NOTE ORIENTATION  
OF SQUEEZE TUBE  
WITH LOCATING LUGS  
FACING OUT



**IV.** Replace clear plastic cover and tighten screws. Reconnect tubing, ensuring inlet is to the left and outlet to the right. Tighten securing nuts.

