



Troubleshooting for D8R

Symptom	Cause	Solution
Piston		
Piston is not clicking	The unit is installed in the wrong direction	The arrow on the unit should point in the same direction as the water flow. Water supply and demand valves should be open.
	Piston locked up/not clicking or bypass in OFF position	Reset piston (see instructions) or flip bypass to ON position.
	Excessive water flow	1. Reduce the flow rate and restart the unit slowly. 2. Check O-rings around the piston valves to see if they are missing or dislodged. 3. Reset the piston (see instructions), and close unit.
	Water hammer	Reset piston (see instructions) and install water hammer arrestor in the appropriate location.
	In-line water filter or inside screen is clogged	Clean the in line water filter and inside screen.
	Scratched/scored or worn piston shell, bell housing, and/or body	Do piston "fit" test (see instructions). Replace piston shell, body and/or bell housing as necessary. Make sure your installation has a 200 mesh filter before the Dosatron. Flush unit often by injecting clear water if wear is due to chemical.
	Broken toggle spring	Replace toggle spring. Call for instructions.
	Broken actuator "barrel" spring	Replace both actuator springs (D25) or actuator assembly (D8R). Call for instructions.
Dosing		
Water flowing back into solution container	Check valve dirty, worn, assembled incorrectly or missing	Clean or replace check valve parts (in particular the seal and cone) and reassemble check valve correctly. Be sure the check valve seal is in proper position.
No suction of solution	Piston locked up/not clicking or bypass in OFF position	Reset piston (see instructions), or flip bypass to ON position, if dispenser has manual bypass.
	Air leak in the suction tube	Check suction tube connection. Inspect suction tube for pin holes or cracks. Check tightness of connection nuts. Cut 1/2" of top of the hose and reattach it correctly.



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Dosing		
No suction of solution (cont.)	Suction tube or strainer clogged	Clean suction tube and strainer or replace hose assembly. Raise strainer 2" off the bottom of stock tank solution.
	Check valve worn, improperly assembled, dirty or damaged	Clean or replace check valve parts. In particular the seal and the cone.
	Plunger seal is damaged, swollen or missing	Replace plunger seal. Make sure the seal type is compatible with the chemical injected. If plunger seal is missing, check incoming water pressure; refer to unit manual for specifications.
Under injection	Worn or scratched piston shell, bell housing and/or body	Do piston "fit" test (see instructions). If necessary replace piston shell, bell housing and/or body. Make sure your installation has a 200 mesh filter before the Dosa-tron.
	Suction of air	Check suction tube connection. Inspect suction tube for pin holes or cracks. Check tightness of connection nuts. Cut ½" off top of the hose and reattach it correctly.
	Excessive water flow	Listen to the unit clicking, count the individual clicks, should not exceed 36 clicks in 15 seconds otherwise is excessive flow. If excessive flow reduce the flow rate and restart the unit slowly.
	Worn plunger seal	Replace plunger seal.
	Worn or cracked injection stem.	Replace injection stem.
	Check valve worn, improperly assembled, dirty or damaged	Clean or replace check valve parts. In particular the seal and the cone.
Leaks		
Leaks in the vicinity of the black nut under the body	Diffuser seal is damaged or positioned incorrectly	Position correctly or replace the diffuser seal. Check tightness of the nut.
	Diffuser is installed incorrectly	Position correctly or replace the diffuser if damaged. Align notch in the diffuser with tooth molded in the body.
	Body may be cracked	Check and replaced the body if necessary.
Leaks between the body and the bell housing	Bell housing seal is damaged, positioned incorrectly or missing	Position correctly, clean the seal seat, or replace the bell housing seal.



D8R Piston “Fit” Test



Insert the piston into the upside down bell housing half way down. Then let go of the piston. The piston should be snug in the upper housing and should not fall in. If it does, the piston shell needs to be replaced. Also inspect the inside of the bell housing and look for deep vertical scratches or excessive wear. If this is the case, the bell housing needs to be replaced.

Note: It is best to remove the plunger prior to doing this test so it will not interfere.

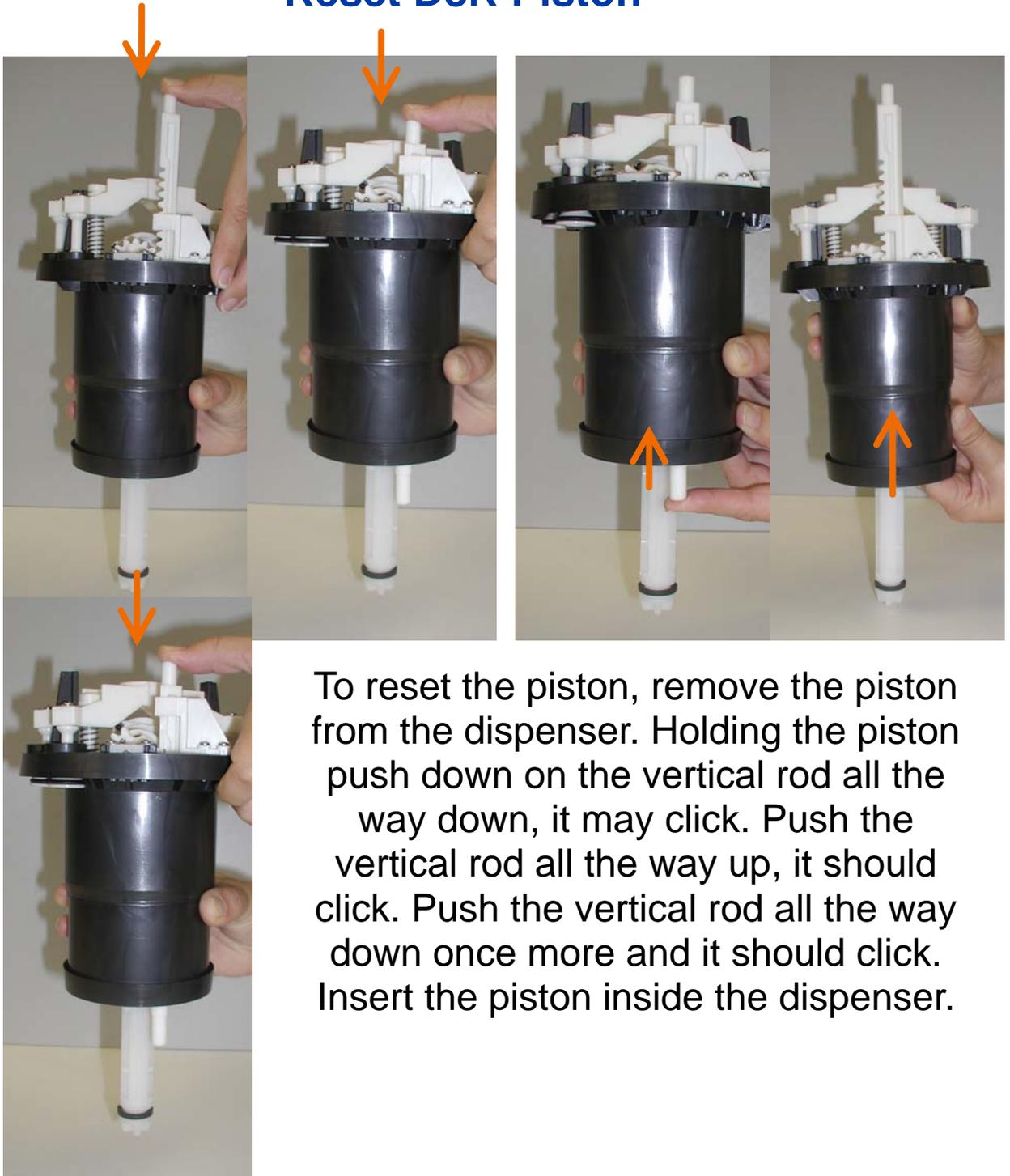
The plunger is the part screwed at the bottom of the piston.



Insert the lower part of the piston half way down the body. Then let go of the piston. The piston should be snug in the body and the piston should not fall in, if it does, the piston shell needs to be replaced. Also inspect the inside of the body and look for deep vertical scratches, if this is the case, the body needs to be replaced.



Reset D8R Piston



To reset the piston, remove the piston from the dispenser. Holding the piston push down on the vertical rod all the way down, it may click. Push the vertical rod all the way up, it should click. Push the vertical rod all the way down once more and it should click. Insert the piston inside the dispenser.