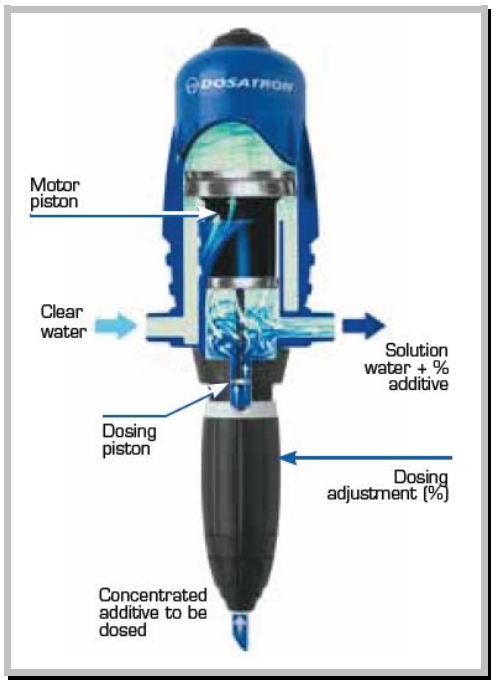
Dosatron D3 RE2 operating manual

PRINCIPLE



Le Dosatron is made of motor piston which is sending a constant volume of water in the pump and of a dosing piston injecting a given volume of chlrinated solution.

1- General remarks

- When connecting a dispenser either to the public water supply or to its own water source, you must respect the regulations in force concerning protection of the source and connection.
- In the event that the installation is lower than the water network or water tower, it is recommended to install a non-return valve downstream from the dispenser.
- Do not install the dispenser on the suction side of a pump (risk of siphoning).
- Do not install the dispenser just above an acid container or corrosive products and protect it from possible contact with fumes from such products.
- The dispenser must be protected from freezing temperatures and strong heat.

2- Water with high particle water content

- In the event of water with high particle water content, a water filter must be installed prior to the dispenser.

ASSEMBLING THE DISPENSER

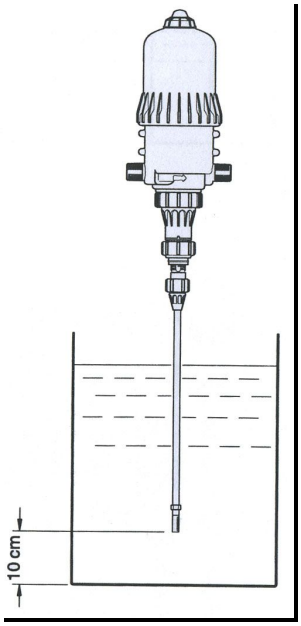
- ***Assembly should be carried out without the use of tools***
- The proportional dispenser is delivered with:
  - A mounting bracket
  - A suction tube with a strainer

The bracket enables the dispenser to be fixed to a wall. The Dosatron can be connected to the water supply by means of 3/4" bore flexible or rigid hose and hose fittings with hose clips.

Check that the water flows in the same direction as the arrows on the motor body.

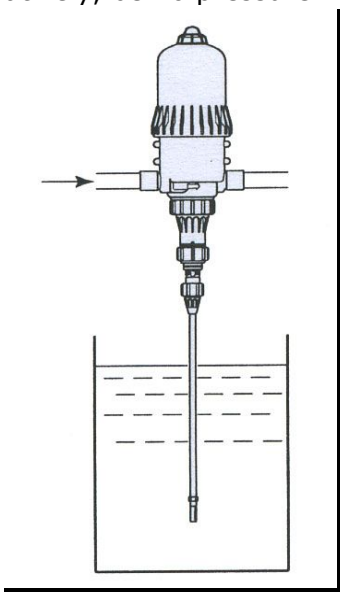
The dispenser is delivered with a suction tube that must be fitted with its strainer and, as it floats, also a weight (a screw nut is fine).

Important: the strainer must be suspended at least 10 cm above the bottom of the tank to avoid sucking up insoluble particles or sediment that may damage the injection assembly.

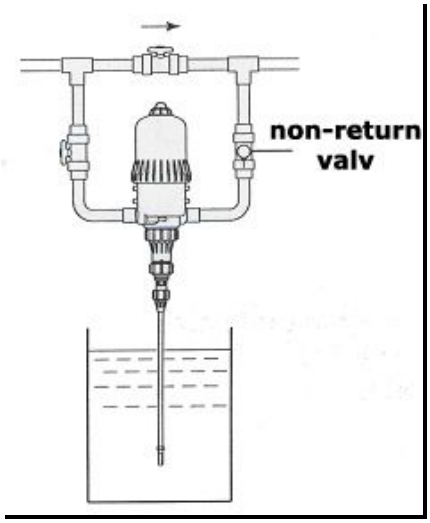


To adjust the injection rate there must, imperatively, be no pressure in the dispenser.

Installation hints: the dispenser can be connected to the main water line directly …



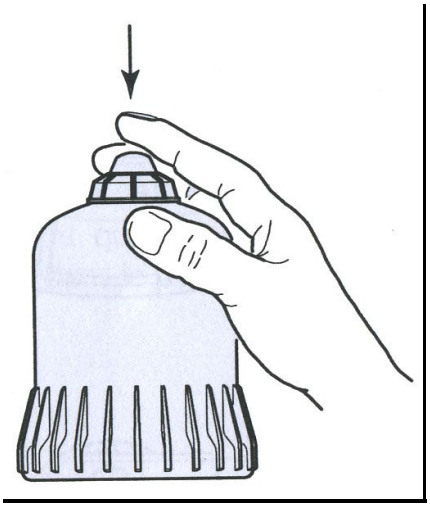
…or on a by-pass.



USING THE DISPENSER FOR THE FIRST TIME

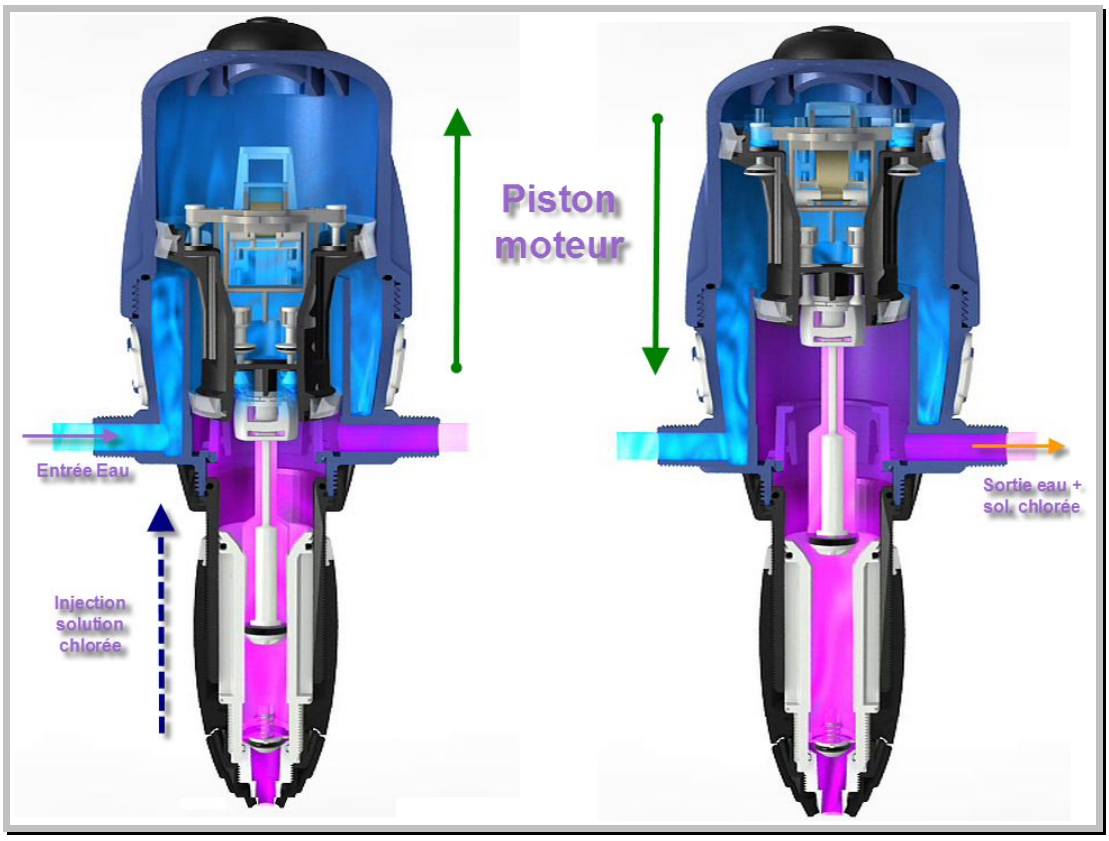
When using the dispenser for the first time or after having taking it apart for cleaning, the following must be carried out:

- Partially open the water inlet valve,
- Press the air bleed button at the top of the dispenser and let all the air out,
- Open the water inlet valve slowly.



Note : The time required to prime the suction tube depends on the water flow-rate, ratio setting and the time it takes the suction tube to fill with the solution. .
To accelerate priming, set injection rate at maximum.

Once the Dosatron is primed, bleed air from the suction tube, adjust to the required injection rate.



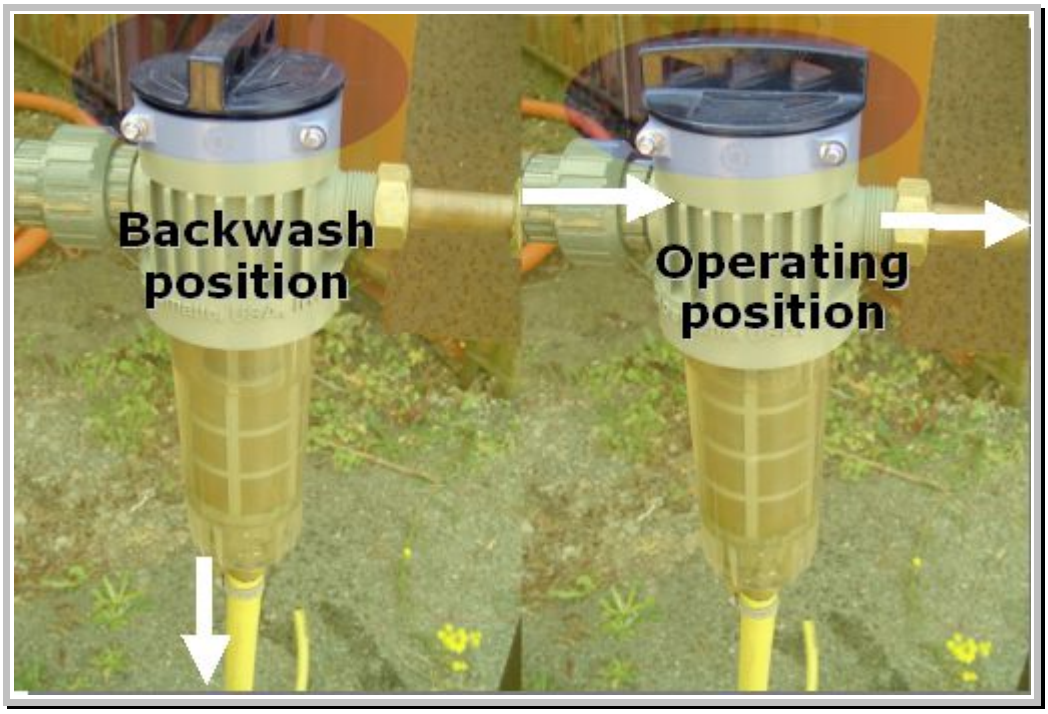
BASIC MAINTENANCE

Dosatron

1- When using soluble products to be made up into solutions, we recommand periodically pumping a mix of water and vinegare,
2- we also recommend periodically dismantling the entire dosing part, thoroughly rinsing all the elements of the dosing part with water and vinegare and re-assembling them after having previously lubricated the seal with a silicone lubricant or vaseline.
3- An air inlet, an impurity or a chemical attack on a seal can interrupt the dosing function. Periodically check that the solution is being correctly drawn up into the dispenser.
4- Before using the dispenser after a long period out of use, remove the motor piston and soak it in lukewarm water overnight. This helps to dissolve any deposits which may have dried on the piston.

Important : In all cases tightening must be done by hand

Prefilter
Do regular backwash of the prefilter:



How to drain the dispenser

In the event of freezing temperatures, disconnect the dispenser and remove from the bracket

- remove the bell and the motor piston
- empty the water from the pump body
- clean all the parts
- lubricate the seals and re-assemble the dispenser

TROUBLE SHOOTING

- **Motor piston**

Motor piston	Cause	Solution
Dispenser does not start or stops		Check installation is correct for roper performance
		Check the water supply is on
	Filter is clogged	Clean the water filter
	Maximum flow exceeded	Unscrew the bell, remove the motor piston and check piston valve seals to ensure correct position Reduce flow and restart unit
	Damaged motor	Return unit to supplier for repair

2 – Injection incidents

Injection incidents	Cause	Solution
Water flowing back into the solution container	Dirty or worn out valve seal	Clean of change the joint
No suction	The hydraulic motor has stopped	See heading 'motor piston'
	Suction of air	Check the elements in the injection part are properly screwed tight
	Blocked suction tube or Clogged strainer	Clean these parts. Important! The strainer must be installed at least 10cm from the bottom of the tank
Under injection	Suction of air	
	Dirty or worn check valve seal	Clean or replace it
	Maximum dose exceeded (cavitation: in the event of high viscosity)	Reduce flow
	Worn plunger seal	Replace it
	Worn injection stem	Replace it

3 – Leaks

Leaks	Cause	Solution
Leaks in the vicinity of the fixing ring under the body housing	Injection sleeve seal is damaged or positioned incorrectly	Replace or change the seal
Leaks between the body	Seal is damaged, positioned	Unscrew the bell, clean the seal seating replace the seal. Position the bell

and the bell	incorrectly or missing	correctly