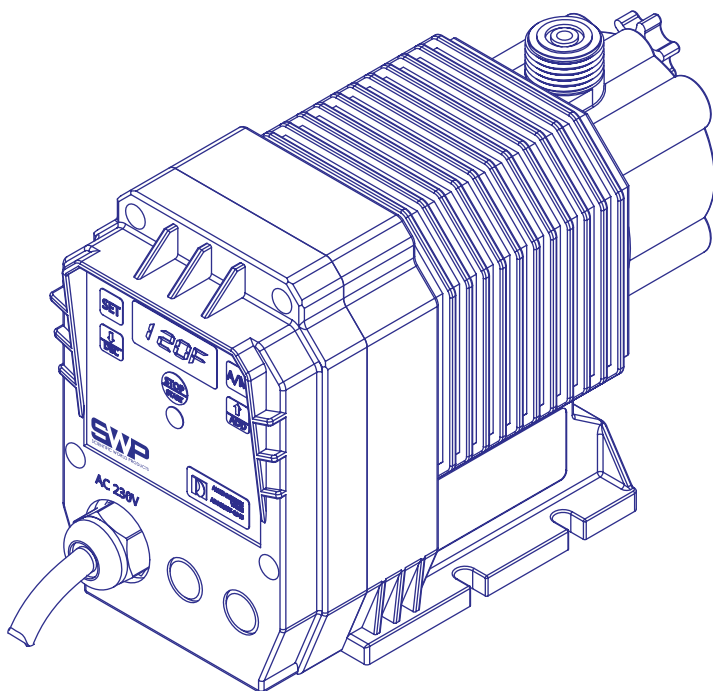




Dosing Pump INSTALLATION AND OPERATING GUIDE



ONLINE WARRANTY INFORMATION
www.crystalquest.com/warranty.html





INTRODUCTION

This user's manual outlines installation, operating, maintenance, and troubleshooting details vital to the sustained performance of your system.

If your system is altered at the site of operation or if the feed water conditions change, please contact your distributor to determine the proper recovery for your application.

NOTE: In order to maintain warranty, an operating log must be maintained. Copies must be sent to distributor for review.

NOTE: Prior to operating or servicing the Dosing Pump, this user manual must be read and understood. Keep it and other associated information for future reference and for new operations.

SAFETY

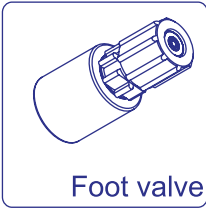
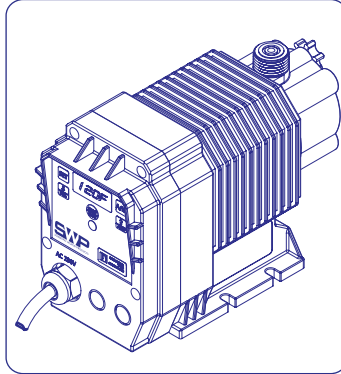
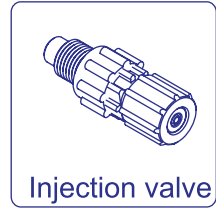


Make sure dosing pump is the same voltage as power supply.



After handling solutions chlorine, antifoulant, etc.
Please clean hands thoroughly.

UNPACKING



Packing list

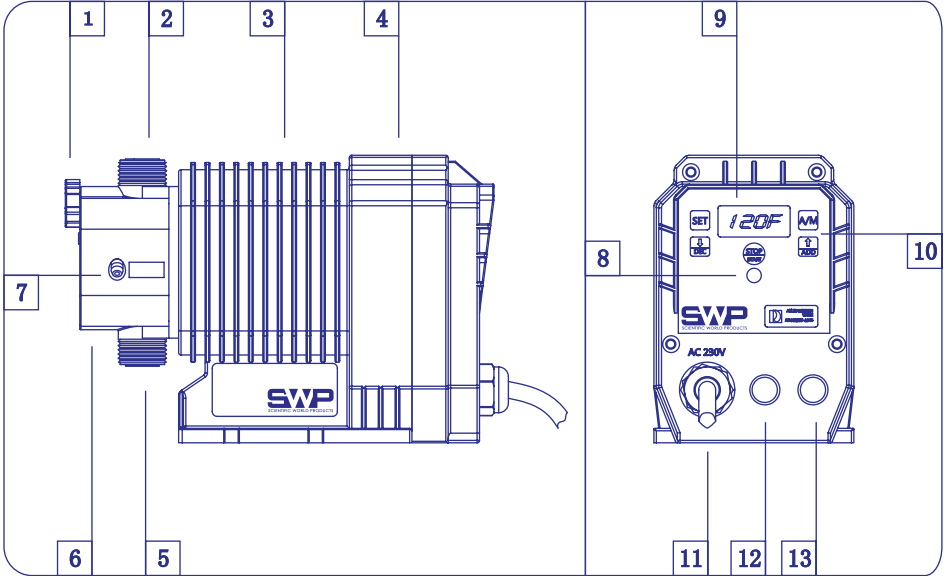
Number	Name	Quantity	Material
A0011552*	Anti-syphon valve	1	Polypropylene
A001256	Injection valve	1	Polypropylene
A001257	Foot valve	1	Polypropylene
A001158	Discharge tubing	1	3.2m/Polyethylene
A001159	Suction tubing	1	1.6m/Polyvinyl chloride
A001160**	Back tubing	1	0.8m/Polyvinyl chloride
A001261	Connection	2	2Nut&2Clasp&2Nozzle
A001162	O-ring	2	Spare/EPDM

* A0011552 may not be included in the packing list, Please contact the dealer to buy if you need it;

** A001160 just for the type of exhaust function;



COMPONENTS AND FUNCTIONS



1. Exhaust Knob
2. Discharge Valve
3. Back Cover
4. Front Cover
5. Suction Valve
6. Pump Head
7. Back Tubing Jack
8. Running Indication

9. Frequency Display
10. Keys
11. AC 220/110
12. Level
13. Control Signal



* Make sure dosing pump is the same voltage as power supply.



FLOW ADJUSTING AND KEY SETTINGS

6. 4. 2 V series

6. 4. 2. 1 VT type(manual)

- XXXF (XXX is frequency, for example 1.20F unit: N/min)
- Press stop or start pump, stop display OFF start display XXXF
- Press or adjusting the frequency
- The frequency of LED flickering is same as the frequency of pump

Circle timer setting (unit: minute)

- Press to switching control mode, XXXF means manual, XXXR means circle time
- XXXR Press the first time, display 1.255 this 255 is running time
- Press or adjust the 255
- Press the second time, display 2.255 this 255 is stop time
- Press or adjust the 255
- Press third time, save settings, display XXXR

For example, setting as 1.005 2.049 it means running 5 minutes, stop 49 minutes



NOTE This function of VT type is controlled by the timer in MCU of pump, the accuracy is a little poor about 15 seconds per hour, the C series Ct type can provide high accuracy cause it is controlled by off-chip clock MCU.

6. 4. 2.2 VP type(Pulse signal)

The setting of manual is the same as VT type.

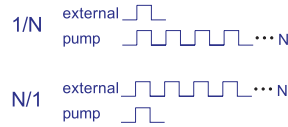
Setting of auto:

- Press to switching control mode, XXXF means manual, XXXP means auto
- Press or adjust the frequency
- XXXP Press the first time, display 1.001 or 1.000

1.000 means 1/N, 1.001 means N/1)

1/N means one external signal, pump run N times:

N/1 means N external signal, pump run one times:



- Press or to switching 1/N or N/1
- Press the second time, display 2.001 (it means the N)
- Press or adjust it
- Press third time, save settings, display XXXP
- Press stop or start pump

• Wire the dosing pump into the RO pump motor so the dosing pump will only run when the RO is on.

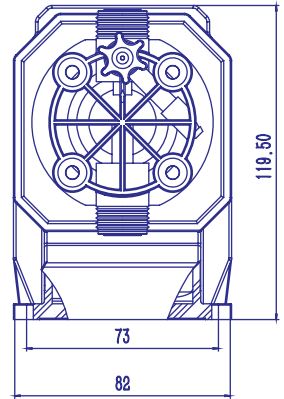
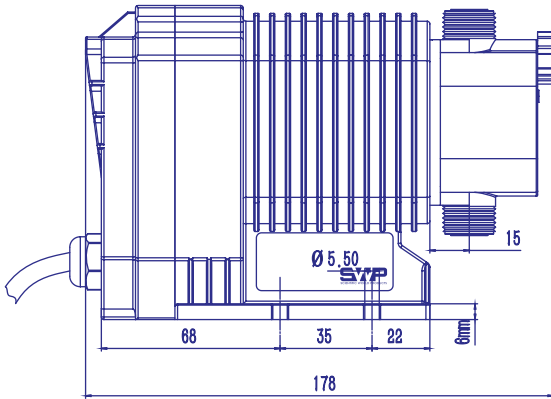
• The key setting will remain the same when operation returns.

- Brown + Power (Red + Blk)
- Blue + Common (White)
- Yellow Green Stripe + Ground



DIMENSIONS AND CAPABILITY

V series



V series

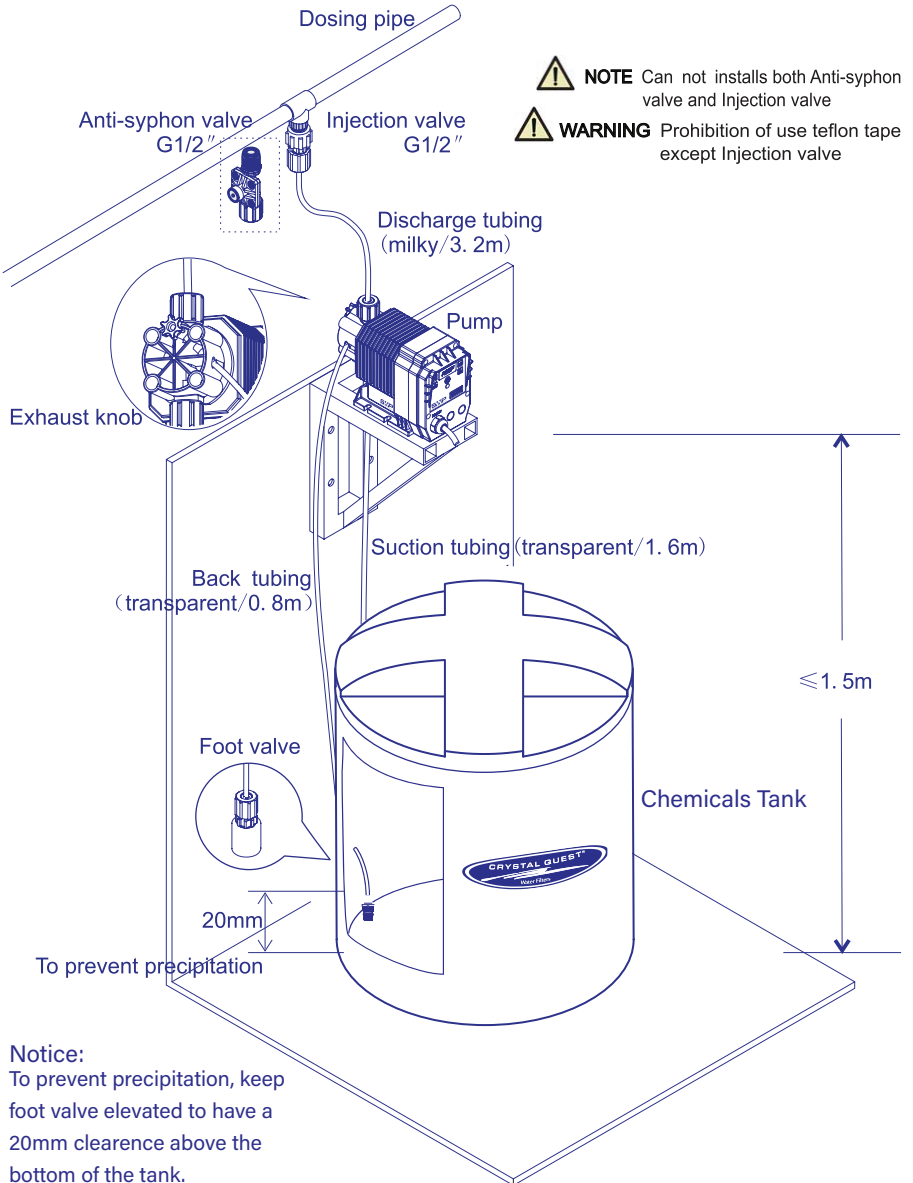
Model	Flow L/h	Pressure Bar	Frequency N/min	Model	Flow L/h	Pressure Bar	Frequency N/min
00508	0.48	8.2	90	06005	6.00	4.8	160
01008	1.08	8.2	90	08004	8.16	3.8	160
02008	2.16	8.2	120	09003	9.00	3.5	160
03008	3.12	7.6	120	10004	10.20	3.2	160
04006	3.60	6.8	120	12003	12.48	2.8	180
05006	5.04	6.2	160	15002	15.20	1.8	180



NOTE: If the pump head has no exhaust knob, unscrew the nut on the discharge valve to exhaust.

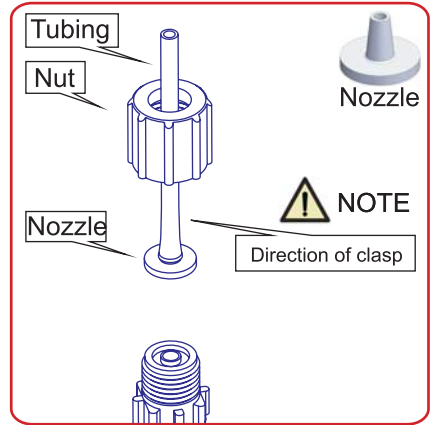
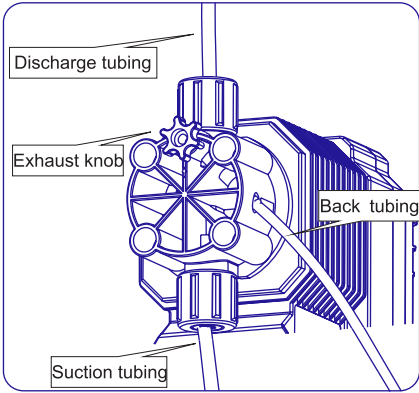


INSTALLATION

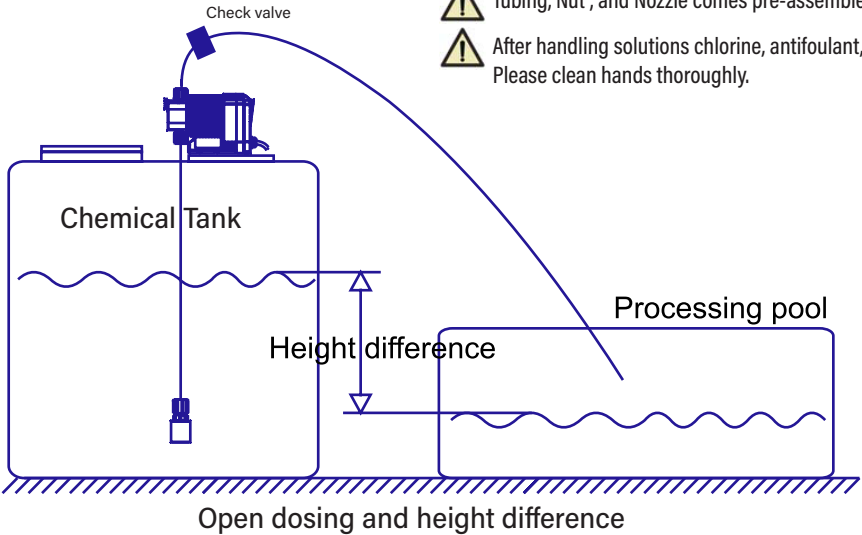


INSTALLATION CONTINUED

- One end of back tubing inserted into the head, the other end put into the chemical tank
- Put the nut and clasp over the tubing
- Put the tubing into the nozzle hard



- ⚠ Tubing, Nut, and Nozzle comes pre-assembled.
- ⚠ After handling solutions chlorine, antifoulant, etc. Please clean hands thoroughly.





ONE-YEAR LIMITED WARRANTY

CRYSTAL QUEST® warrants your Dosing Pump System for one year from the date of purchase against all defects in materials and workmanship when used in compliance with the manual. CRYSTAL QUEST® disclaims all implied warranties including, without limitation, warranties of merchantability and fitness for a particular purpose. If for any reason the product proves to be defective within one year from the date of purchase, please call for assistance. This warranty gives you specific legal rights and you may have other legal rights which vary from state to state. CRYSTAL QUEST® assumes no responsibility for incidental or consequential damages; for damages arising out of misuse of the product or the use of any unauthorized attachment. Some states do not allow the exclusion or limitation of implied warranties or incidental or consequential damages, so the above limitations or exclusions may not apply to you. Should service be required during or after the warranty period or should you have any questions regarding how to use your CRYSTAL QUEST® Dosing Pump System contact our Technical Support Department at service@crystalquest.com, Monday through Friday, 9 AM to 5 PM Eastern Time.

KEEP THIS MANUAL FOR FUTURE REFERENCE AND UNIT MAINTENANCE

Online warranty information
<http://crystalquest.com/warranty.html>

Product design is subject to change without notice.

For further assistance, contact your Crystal Quest dealer
or visit us at www.crystalquest.com

To view the latest edition of the Dosing Pump Guide visit CrystalQuest.com

Please note all drawings, pictures, colors and sizes are approximate for illustrative purposes only
and may not exactly resemble the end product.



IMPORTANT NOTES

Your dosing system can enhance the effectiveness of your water filtration system, making it more efficient and easier to maintain. Use it during pre-treatment, primary treatment, or post-treatment to control pH levels, eliminate bacteria & viruses, reduce chlorine, or other tasks related to water treatment depending on your specific needs. Common types of dosing solutions include....

1. **Anti-silica:** Compounds added to water treatment systems to prevent the precipitation & buildup of silica, which can cause scaling on membranes and other surfaces in the system. Examples: citric acid, sodium hexametaphosphate, sodium aluminate, polymers
2. **Anti-scalants:** Used to prevent scale, or the formation of mineral deposits on your filtration system & pipes which can clog the system & reduce its efficiency. Examples: citric acid, polyacrylic acid, polyphosphates
3. **Disinfection:** Used to disinfect water that has passed through your filtration system. Reacts with organic matter & bacteria, killing harmful microorganisms. Examples: chlorine, chlorine dioxide, ozone, hydrogen peroxide, sodium hypochlorite
4. **Anti-foulants:** Used to prevent the buildup of biological fouling in water systems. Fouling occurs when bacteria, algae, & other microorganisms grow on the surfaces of filtration equipment & pipes, reducing flow rate & increasing energy consumption. Examples: chlorine, bromine, polyamines, glutaraldehyde
5. **pH adjustment:** Adds an acidic or basic compound to your water to maintain pH levels within the optimum range for your system. Examples: chlorine dioxide, calcium hydroxide, soda ash

The dosing solution used will depend on the specific contaminants present in the water, the desired level of water purity, and the specific application. Many treatment systems use a combination of dosing solutions to achieve the desired result.



IMPORTANT NOTES



**55 Chastain Rd. NW
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