

# FLOCON®

## Dosing Calculations and Metering Pump Adjustment

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**Caution: Handle chemical and solution with care. Wear rubber gloves, facemask or goggles, and protective clothing.**

About 5 PPM of antiscalant is injected into the feed water to minimize the fouling of membranes by Calcium Carbonate scaling. Amount of Antiscalant for various feed flows is given below.

<b>(Approx.) Amount of FLOCON® to add in 50 Gallon Tank to Make a Solution</b>								
**Feed Water Gallons/day	<b>100% Solution</b> *Amount of FLOCON®, (Gallons)	Approximate Daily Tank Level Drop (in Inches)	Stroke %	Frequency %	<b>10% Solution</b> *Amount of FLOCON®, (Gallons)	Approximate Daily Tank Level Drop (in Inches)	Stroke %	Frequency %
20,000	-	-			1	1"	40	50
50,000	-	-			2.5	2"	40	80
100,000	-	-			5	5"	60	100
***200,000	2 (50% Soln)	1.6"	40	75	-	-		
400,000	2	1.6"	40	80	-	-		
500,000	2.5	2"	40	90	-	-		
1,000,000	5	4"	60	100	-	-		

\* Total Solution (antiscalant and water mixture) amount to inject per day for 5 PPM in feed

\*\* Feed gallons/day = Permeate (gallons/day) + Concentrate (gallons/day)

\*\*\* Fuse 50% solution for 200,000 GPD feed

- Do not use solution of less than 10% concentration
- The recommended injection point is into the feed water downstream of any filtration equipment or cartridges
- **FLOCON®** may be used as neat product or as a dilute solution. RO permeate is recommended for dilution.

### Setting the Metering Pump:

- Set the frequency as high as possible, say (80%).
- Adjust the stroke so that desired amount of flow is obtained.

For example:

If the amount of chemical to be injected = 2 Gal/day

Stroke \* Frequency \* max pump flow rating = 2 Gal/day

Say stroke length = L, Max pump flow rating = 10 Gal/day

$$L * .8 * 10 = 2 \text{ Gal/day}$$

$$\text{Or } L = 2 / 8 = 25\%$$

Thus when the frequency of pump is set at 80% and the stroke length set at 25% the injection rate will be 2 Gals/day.

- The actual tank level should be monitored to confirm the injection rate of chemicals. If not, adjust the stroke length to get desired amount.