

SeaVisions Peristaltic Doser Charts

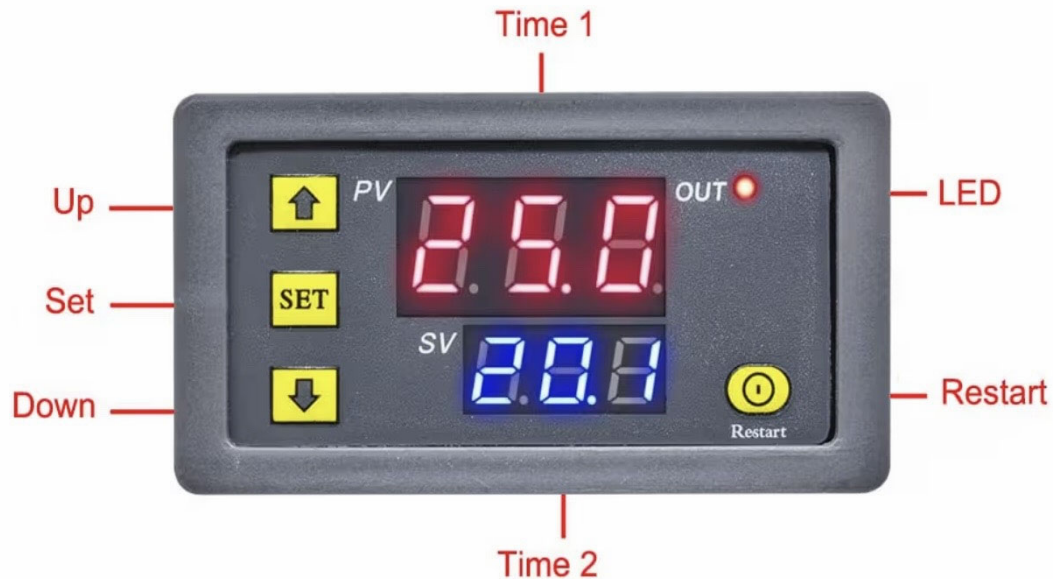
OVER-RUN-corrected timing: OFF times have been adjusted so the delivered 'Actual mL/day' matches the Target mL/day, including post-power pump momentum (overrun) per stop: 7.5V=0.789 mL, 9V=0.93 mL, 12V=1.50 mL. This simply means after power is removed from turning the pump there is a slight momentum based on the voltage that will add more fluid. This has been compensated as best as could be measured with a new pump and tubing. Please verify your actual dosing and adjust off time according to your own final testing when measurements are critical. **This dosing chart is used as a test dosing times per 24 hours of a new system only. Please run your setup for 24 hours and adjust your off times slightly up or down to match your desired setting. Be sure to use a correctly calibrated or marked container.**

Voltage and column labels repeat on every page for clarity.

NOTE: Gal/day is shown to 4 decimals to prevent rounding duplicates at high outputs and does not represent actual accuracy.

SeaVisions Doser – User Instructions

SeaVisions Peristaltic Doser Charts



Digital Cycle Timer – Red display = ON time (PV), Blue display = OFF time (SV)

Step 1: Choose Your Dosing Range

- Refer to the SeaVisions dosing chart.
- The chart includes calibrated settings for 7.5 V, 9 V, and 12 V.
- Select the voltage that best matches your required delivery volume over 24 hours.
- Set the voltage on the supplied power adapter to match the selected chart voltage.

Step 2: Power On

- Plug in the power adapter.
- The digital timer will power on automatically.

Step 3: Program the Timer

- Short press the SET button. The top red display (ON time) will flash.
- Use the UP and DOWN buttons to match the ON time shown on the dosing chart.
- Press SET again. The bottom blue display (OFF time) will flash.
- Use the UP and DOWN buttons to match the OFF time shown on the dosing chart.

SeaVisions Peristaltic Doser Charts

- Press SET once more to save the settings. The controller will begin cycling automatically.

Step 4: Verify Actual Output (Required)

- Place the LEFT tube into a container of clean water.
- Place the RIGHT tube into a calibrated measuring vessel.
- Allow the doser to run continuously for 24 hours.
- Measure the total volume delivered.

Fine Adjustment (Simple Math)

- If the delivered volume is low, reduce the OFF time. If the delivered volume is high, increase the OFF time.
- Quick formula: $\text{New OFF time} = \text{Old OFF time} \times (\text{Actual mL} \div \text{Target mL})$.
- Round to the nearest second, then reverify over another 24hour run.
- Example 1 (LOW output): Target 1000 mL/day, Actual 900 mL/day, Old OFF = 300 s
New OFF = $300 \times (900/1000) = 270$ s.
- Example 2 (HIGH output): Target 1000 mL/day, Actual 1100 mL/day, Old OFF = 300 s
New OFF = $300 \times (1100/1000) = 330$ s.

Important Setup Mode Note

- If the SET button is held too long, the controller will enter setup mode.
- Correct parameters are:
 - P0 = 0
 - P1 = 5 (seconds-based timing)
- No other parameters should be changed.

Final Installation

- Mount the doser using the supplied stainless steel screws.
- Secure all tubing to prevent movement.
- Confirm LEFT tube is the source and RIGHT tube is the destination.

Important Reminder

- All dosing values are guidelines and must be verified by the user.
- Differences in tubing length, head pressure, liquid density, and installation height affect output.

Verification and fine adjustment are normal and e

7.5 VOLT DOSER CHART

7.5 VOLT PERISTALTIC DOSER CHART

IMPORTANT: User must verify his or her own results and adjust times accordingly.

Actual pump output varies by pump, tubing, head pressure, and installation.

7.5V chart uses 50 mL/day increments where applicable (then variable steps at higher outputs).

Doubling OFF time halves volume; halving OFF time doubles volume.

Timer limits (standard chart): ON = 1–4 sec, OFF = 1–999 sec.

Calibration basis: 1s ON / 999s OFF \approx 83.5 mL/day (no boot delay)

MINIMUM OUTPUT: 1 second ON / 999 seconds OFF \approx 83.5 mL/day (\approx 0.0221 gal/day).

Target mL/day	ON (sec)	OFF (sec)	Actual mL/day	Gal/day
50	1	999	151.7	0.0401
100	1	999	151.7	0.0401
150	1	999	151.7	0.0401
200	2	999	234.9	0.0621
250	1	606	249.9	0.0660
300	3	999	318.0	0.0840
350	2	670	350.0	0.0924
400	4	999	401.0	0.1059
450	2	521	449.6	0.1188
500	1	302	500.6	0.1322
750	3	422	749.8	0.1981
1000	2	233	1000.7	0.2644
1250	4	318	1248.9	0.3299
1500	3	209	1503.2	0.3971
1750	4	226	1748.6	0.4619
2000	4	197	2000.8	0.5286
2500	3	124	2509.2	0.6629

7.5 VOLT DOSER CHART

3000	4	130	3001.3	0.7928
3500	4	111	3497.1	0.9238
4000	1	37	3991.3	1.0544
4500	2	50	4522.5	1.1947
5000	3	61	4979.2	1.3154
6000	3	50	6012.6	1.5884
7000	1	21	6894.1	1.8212
8000	2	27	8109.3	2.1423
9000	4	41	8937.1	2.3609
10000	3	29	9958.4	2.6307
11000	3	26	10988.6	2.9029
12000	3	24	11802.6	3.1179
13000	2	16	13065.0	3.4514
14000	1	10	13788.2	3.6424
15000	2	14	14698.1	3.8828
16000	4	21	16086.8	4.2497
17000	1	8	16852.2	4.4519
18000	3	15	17703.9	4.6769
19000	3	14	18745.2	4.9520
20000	4	16	20108.5	5.3121
21000	1	6	21667.1	5.7238
22000	4	14	22342.8	5.9023
23000	3	11	22762.1	6.0131
24000	2	8	23516.9	6.2125
25000	3	10	24513.0	6.4757
26000	4	11	26811.3	7.0828

7.5 VOLT DOSER CHART

27000	1	5	25278.2	6.6778
28000	1	4	30333.9	8.0134
29000	1	4	30333.9	8.0134
30000	4	9	30936.1	8.1725
31000	3	7	31867.0	8.4184
32000	3	7	31867.0	8.4184
33000	2	5	33595.7	8.8750
34000	2	5	33595.7	8.8750
35000	3	6	35407.7	9.3537
36000	3	6	35407.7	9.3537
37000	4	7	36560.9	9.6584
38000	4	7	36560.9	9.6584
39000	4	6	40216.9	10.6242
40000	1	3	37917.4	10.0167
41000	1	3	37917.4	10.0167
42000	1	3	37917.4	10.0167
43000	1	3	37917.4	10.0167
44000	1	2	50556.5	13.3556
45000	4	5	44685.5	11.8047
46000	4	5	44685.5	11.8047
47000	4	5	44685.5	11.8047
48000	4	4	50271.2	13.2803
49000	3	4	45524.2	12.0262
50000	3	3	53111.6	14.0306
51000	3	3	53111.6	14.0306
52000	3	3	53111.6	14.0306

7.5 VOLT DOSER CHART

53000	2	2	58792.4	15.5313
54000	2	2	58792.4	15.5313
55000	2	2	58792.4	15.5313
56000	2	2	58792.4	15.5313
57000	2	2	58792.4	15.5313
58000	2	2	58792.4	15.5313
59000	2	2	58792.4	15.5313
60000	3	2	63733.9	16.8367
61000	3	2	63733.9	16.8367
62000	3	2	63733.9	16.8367
63000	3	2	63733.9	16.8367
64000	3	2	63733.9	16.8367
65000	4	2	67028.3	17.7070
66000	4	2	67028.3	17.7070

9 VOLT (UPDATED) DOSER CHART

9 VOLT (UPDATED) PERISTALTIC DOSER CHART

IMPORTANT: User must verify his or her own results and adjust times accordingly.

Actual pump output varies by pump, tubing, head pressure, and installation.

≤ 500 mL/day uses 100 mL steps; > 500 mL/day uses variable steps.

Doubling OFF time halves volume; halving OFF time doubles volume.

Timer limits (standard chart): ON = 1–4 sec, OFF = 1–999 sec.

Calibration basis: 470 mL in 23h 54m @ 4s ON / 853s OFF (no boot delay)

Target mL/day	ON (sec)	OFF (sec)	Actual mL/day	Gal/day
100	1	999	181.5	0.0479
200	1	906	200.1	0.0528
300	1	604	300.0	0.0792
400	3	956	400.1	0.1057
500	4	966	499.8	0.1320
750	4	642	750.5	0.1983
1000	1	180	1002.6	0.2649
1250	1	144	1251.5	0.3306
1500	3	253	1498.9	0.3960
1750	4	273	1750.3	0.4624
2000	2	139	2004.2	0.5295
2500	2	111	2500.8	0.6606
3000	3	125	2997.7	0.7919
3500	1	51	3489.8	0.9219
4000	4	117	4006.8	1.0585
4500	2	61	4485.6	1.1850
5000	4	93	4998.2	1.3204
6000	4	77	5985.5	1.5812

9 VOLT (UPDATED) DOSER CHART

7000	2	38	7064.7	1.8663
8000	3	45	7994.0	2.1118
9000	4	50	8978.2	2.3718
10000	1	17	10081.7	2.6633
11000	4	40	11018.8	2.9109
12000	2	22	11774.5	3.1105
13000	4	33	13103.4	3.4616
14000	4	31	13852.2	3.6594
15000	4	28	15150.9	4.0024
16000	3	21	15987.8	4.2235
17000	1	10	16497.3	4.3581
18000	3	18	18271.8	4.8269
19000	3	17	19185.4	5.0683
20000	1	8	20163.4	5.3266
21000	4	19	21079.5	5.5686
22000	3	14	22571.1	5.9626
23000	3	14	22571.1	5.9627
24000	4	16	24241.4	6.4039
25000	3	12	25580.6	6.7577
26000	1	6	25924.4	6.8485
27000	4	14	26934.8	7.1154
28000	3	11	27407.8	7.2404
29000	2	8	28259.0	7.4652
30000	3	10	29516.0	7.7973
31000	4	12	30301.7	8.0049
32000	4	11	32321.8	8.5385

9 VOLT (UPDATED) DOSER CHART

33000	3	9	31975.7	8.4471
34000	1	4	36294.2	9.5879
35000	1	4	36294.2	9.5879
36000	4	9	37294.4	9.8521
37000	4	9	37294.4	9.8521
38000	3	7	38370.9	10.1365
39000	3	7	38370.9	10.1365
40000	2	5	40369.9	10.6646
41000	2	5	40369.9	10.6646
42000	3	6	42634.2	11.2628
43000	3	6	42634.2	11.2628
44000	3	6	42634.2	11.2628
45000	4	7	44075.2	11.6434
46000	4	7	44075.2	11.6434
47000	4	6	48482.7	12.8078
48000	3	5	47963.6	12.6706
49000	3	5	47963.6	12.6706
50000	3	5	47963.6	12.6706
51000	1	3	45367.7	11.9849
52000	1	2	60490.3	15.9798
53000	1	2	60490.3	15.9798
54000	1	2	60490.3	15.9798
55000	4	5	53869.7	14.2309
56000	4	5	53869.7	14.2309
57000	4	5	53869.7	14.2309
58000	4	4	60603.4	16.0097

9 VOLT (UPDATED) DOSER CHART

59000	4	4	60603.4	16.0097
60000	3	3	63951.4	16.8942
61000	3	3	63951.4	16.8942
62000	3	3	63951.4	16.8942
63000	3	3	63951.4	16.8942
64000	3	3	63951.4	16.8942
65000	2	2	70647.5	18.6631
66000	2	2	70647.5	18.6631
67000	2	2	70647.5	18.6631
68000	2	2	70647.5	18.6631
69000	2	2	70647.5	18.6631
70000	2	2	70647.5	18.6631
71000	2	2	70647.5	18.6631
72000	3	2	76741.7	20.2730
73000	3	2	76741.7	20.2730
74000	3	2	76741.7	20.2730
75000	3	2	76741.7	20.2730
76000	3	2	76741.7	20.2730
77000	3	2	76741.7	20.2730
78000	3	2	76741.7	20.2730
79000	4	2	80804.6	21.3463
80000	4	2	80804.6	21.3463

12 VOLT DOSER CHART

12 VOLT PERISTALTIC DOSER CHART

IMPORTANT: User must verify his or her own results and adjust times accordingly.

Actual pump output varies by pump, tubing, head pressure, and installation.

≤ 500 mL/day uses 100 mL steps; > 500 mL/day uses variable steps.

Doubling OFF time halves volume; halving OFF time doubles volume.

Timer limits (standard chart): ON = 1–4 sec, OFF = 1–999 sec.

Calibration basis: Locked calibration per authoritative SeaVisions v4

Target mL/day	ON (sec)	OFF (sec)	Actual mL/day	Gal/day
100	1	999	263.5	0.0696
200	1	999	263.5	0.0696
300	2	999	397.0	0.1049
400	1	658	399.9	0.1056
500	3	999	530.3	0.1401
750	2	528	749.9	0.1981
1000	3	528	1000.7	0.2644
1250	4	528	1250.5	0.3304
1500	4	440	1498.4	0.3958
1750	2	225	1750.8	0.4625
2000	3	263	1997.6	0.5277
2500	2	157	2499.6	0.6603
3000	3	174	3002.0	0.7931
3500	4	186	3501.5	0.9250
4000	2	97	4014.5	1.0605
4500	4	144	4495.1	1.1875
5000	4	129	5002.1	1.3214
6000	3	86	5970.3	1.5772

12 VOLT DOSER CHART

7000	4	91	7003.0	1.8500
8000	4	79	8015.4	2.1174
9000	1	28	9086.9	2.4005
10000	3	50	10025.7	2.6485
11000	4	56	11088.0	2.9291
12000	4	51	12096.0	3.1954
13000	3	38	12960.0	3.4237
14000	2	26	14194.3	3.7497
15000	3	32	15181.7	4.0106
16000	3	30	16101.8	4.2537
17000	1	15	16470.0	4.3509
18000	2	20	18065.5	4.7724
19000	1	13	18822.8	4.9725
20000	3	24	19680.0	5.1989
21000	3	22	21254.4	5.6148
22000	1	11	21960.0	5.8012
23000	4	25	22940.7	6.0603
24000	2	15	23378.8	6.1760
25000	3	18	25302.9	6.6843
26000	4	22	25587.7	6.7596
27000	3	17	26568.0	7.0185
28000	4	20	27720.0	7.3229
29000	3	15	29520.0	7.7984
30000	2	11	30572.3	8.0764
31000	3	14	31256.5	8.2571
32000	4	17	31680.0	8.3690

12 VOLT DOSER CHART

33000	1	7	32940.0	8.7018
34000	1	7	32940.0	8.7018
35000	4	15	35014.7	9.2499
36000	4	14	36960.0	9.7638
37000	3	11	37954.3	10.0265
38000	2	8	39744.0	10.4993
39000	2	8	39744.0	10.4993
40000	3	10	40873.8	10.7977
41000	4	12	41580.0	10.9843
42000	4	12	41580.0	10.9843
43000	1	5	43920.0	11.6024
44000	1	5	43920.0	11.6024
45000	1	5	43920.0	11.6024
46000	1	5	43920.0	11.6024
47000	4	10	47520.0	12.5535
48000	4	10	47520.0	12.5535
49000	4	10	47520.0	12.5535
50000	3	8	48305.5	12.7610
51000	3	7	53136.0	14.0371
52000	2	6	49680.0	13.1241
53000	2	5	56777.1	14.9989
54000	2	5	56777.1	14.9989
55000	2	5	56777.1	14.9989
56000	3	6	59040.0	15.5967
57000	3	6	59040.0	15.5967
58000	3	6	59040.0	15.5967

12 VOLT DOSER CHART

59000	4	7	60480.0	15.9771
60000	4	7	60480.0	15.9771
61000	4	7	60480.0	15.9771
62000	4	7	60480.0	15.9771
63000	4	7	60480.0	15.9771
64000	1	3	65880.0	17.4037
65000	1	3	65880.0	17.4037
66000	1	3	65880.0	17.4037
67000	1	3	65880.0	17.4037
68000	1	3	65880.0	17.4037
69000	1	3	65880.0	17.4037
70000	1	3	65880.0	17.4037
71000	1	3	65880.0	17.4037
72000	4	5	73920.0	19.5276
73000	4	5	73920.0	19.5276
74000	4	5	73920.0	19.5276
75000	4	5	73920.0	19.5276
76000	4	5	73920.0	19.5276
77000	4	5	73920.0	19.5276
78000	4	5	73920.0	19.5276
79000	3	4	75908.6	20.0529
80000	3	4	75908.6	20.0529
81000	3	4	75908.6	20.0529
82000	3	3	88560.0	23.3951
83000	3	3	88560.0	23.3951
84000	3	3	88560.0	23.3951

12 VOLT DOSER CHART

85000	2	3	79488.0	20.9985
86000	2	3	79488.0	20.9985
87000	2	3	79488.0	20.9985
88000	2	3	79488.0	20.9985
89000	2	2	99360.0	26.2481
90000	2	2	99360.0	26.2481
91000	2	2	99360.0	26.2481
92000	2	2	99360.0	26.2481
93000	2	2	99360.0	26.2481
94000	2	2	99360.0	26.2481
95000	3	3	88560.0	23.3951
96000	3	3	88560.0	23.3951
97000	3	2	106272.0	28.0741
98000	3	2	106272.0	28.0741
99000	3	2	106272.0	28.0741
100000	3	2	106272.0	28.0741
101000	3	2	106272.0	28.0741
102000	3	2	106272.0	28.0741
103000	3	2	106272.0	28.0741
104000	4	2	110880.0	29.2914
105000	4	2	110880.0	29.2914
106000	4	2	110880.0	29.2914
107000	4	2	110880.0	29.2914

HIGH OUTPUT (Long ON / 1s OFF) – for maximum daily volume

NOTE: These rows use long ON times with 1 second OFF. Use only if your timer/controller supports ON durations above 4 seconds. Verify output.

12 VOLT DOSER CHART

Target mL/day	ON (sec)	OFF (sec)	Actual mL/day	Gal/day
5	1	1	111600.0	29.4816
10	1	1	121745.5	32.1617
15	1	1	125550.0	33.1668
20	1	1	127542.9	33.6933
30	1	1	129600.0	34.2367
45	1	1	131008.7	34.6088
60	1	1	131724.6	34.7980
90	1	1	132448.4	34.9892
120	1	1	132813.2	35.0855
180	1	1	133180.1	35.1825