

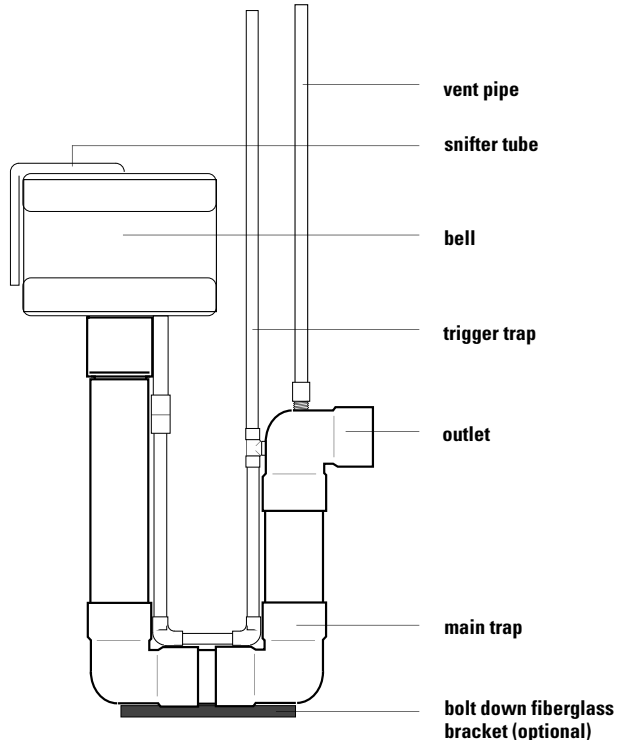
Large Dosing Siphons

Submittal
Data Sheet



Applications

Dosing siphons are most commonly used for converting small, continuous flows into large, intermittent dosing flows in onsite sewage systems. Applications are limited to pressurized distribution systems that are at elevations lower than the siphon.



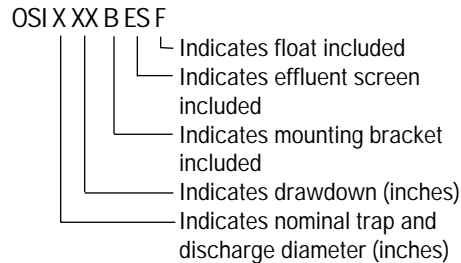
General

Orenco's 3", 4", 6", and 8" Dosing Siphons are available in a variety of drawdowns (listed on page 2). Bolt-down fiberglass brackets are optional.

Standard Models

All standard models (except for 2") are listed on the following page. (For information on 2" siphons, refer to NSU-SI-SI-1.)

Nomenclature



Specifications

Orenco's 3", 4", 6" and 8" Dosing Siphons are available in a variety of drawdowns (listed on next page). Bolt-down fiberglass brackets are available for 3" and 4" models. The trigger trap is a feature required only on some models (see following page).

The bell and vent pipes are threaded connections. All other connections are solvent welded slip joints. The vent pipe is a slip connection that should not be solvent welded.

Standard models, dimensions, and flow rates are listed on page 2.

Dosing counters are available; for more information, refer to the Siphon Sitter™ I and Siphon Sitter™ II submittal sheets.

Materials of Construction:

- Pipe: PVC per ASTM sch. 40 specification
- Fittings: PVC per ASTM sch. 40 specification
- Fiberglass Base: Injection-molded fiberglass
- Resin: UV-stabilized polyester
- Fiberglass: Continuous strand E-glass mat



Oreco Systems[®]
Incorporated

1-800-348-9843

Large Dosing Siphons (continued)

Dimensions

A - Discharge Diameter
(inches - nominal)

B - Drawdown
(inches)

C - Bell Diameter
(inches)

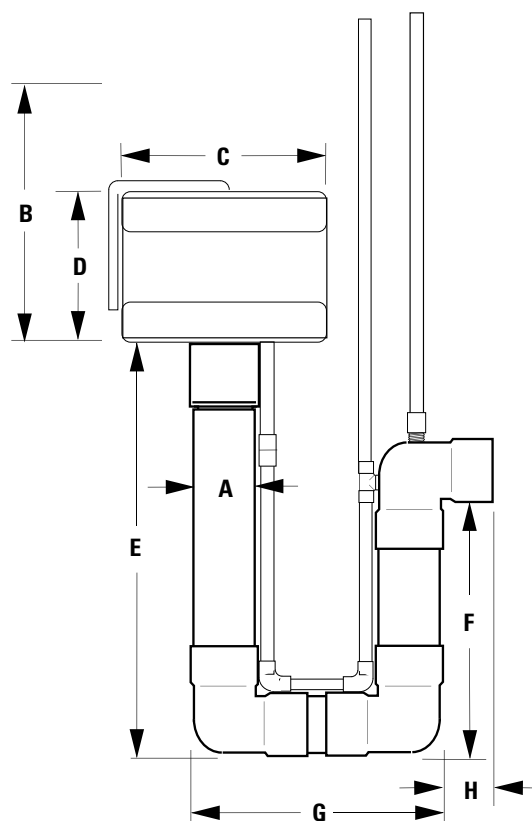
D - Bell Height
(inches)

E - Trap Height
(inches)

F - Discharge Height
(inches)

G - Trap Width
(inches)

H - Discharge Length
(inches)



Model	A	B	C	D	E	F	G	H	Avg Disch. Rate (gpm)
310*	3	10	12	6	15	11	14	2	68
312*	3	12	12	8	17	12	14	2	70
314*	3	14	12	8	18	14	14	2	72
316	3	16	12	8	21	16	14	2	74
318	3	18	12	8	21	16	14	2	76
320	3	20	12	8	23	18	14	2	80
324	3	24	12	12	27	20	14	2	90
330	3	30	12	12	34	27	14	2	100
336	3	36	12	12	39	32	14	2	110
342	3	42	12	12	45	38	14	2	120
348	3	48	12	12	51	44	14	2	130
412*	4	12	15	7	26	14	17	2	140
414*	4	14	15	7	23	16	17	2	144
416*	4	16	15	12	21	14	17	2	148
418*	4	18	15	12	23	16	17	2	152
420*	4	20	15	12	26	18	17	2	156
424	4	24	15	12	31	24	17	2	160
430	4	30	15	12	36	29	17	2	170
436	4	36	15	12	41	34	17	2	185
442	4	42	15	12	47	40	17	2	205
448	4	48	15	14	52	45	17	2	230
618*	6	18	15	14	30	19	22	4	325
624*	6	24	15	14	35	24	22	4	350
630*	6	30	15	14	40	29	22	4	390
636*	6	36	15	14	45	34	22	4	430
642	6	42	20	18	50	39	22	4	440
648	6	48	20	18	55	44	22	4	465
830*	8	30	20	18	47	31	23	4	800
836*	8	36	20	18	52	36	23	4	850
842*	8	42	20	18	57	41	23	4	900
848*	8	48	20	18	60	46	23	4	900+

* Indicates model having a trigger trap.

Notes

- 1) In a pressurized system, a siphon must be selected with an average discharge rate higher than the desired design discharge rate. In many cases, the siphon must be capable of flow rates 1.3 or more times the desired design discharge rate. Please call Oreco if you need assistance.
- 2) To allow proper transport pipe venting, Oreco normally recommends that four-inch diameter siphons and smaller be used with transport lines one size larger than the siphon discharge diameter. Under optimal conditions, four-inch siphons can use "same size" transport lines. Six- and eight-inch diameter siphons can usually use "same size" transport lines.
- 3) If an Oreco mounting bracket is to be used, add 1/2" to the E and F dimensions (3" and 4" models only).
- 4) For additional design information, refer to *Design, Use, and Installation of Dosing Siphons for Onsite Wastewater Treatment Systems (NTP-OSI-ESB-2)* and *Pressure Dosing: Attention to Detail (NTP-OSI-ESB-1)*.