

DATASHEET

# Biomate 2000 Series

Brominator & Biocide Feeders



## Biomate 2000 Series

Easy-open wide-mouth top

See-through body design

1" plumbing for high-flow systems

125LB Pressure relief valve

Wide bolt-down base



# Overview

The Biomate is perfect for any system that requires a biocide tablet feeder. Use chlorine tablets or bromine pucks in this erosional side stream feeder. Three sizes are available for different flow rates and capacities. Applications Include:

- Cooling Tower Biocide Feeder
- Condensers
- Irrigation Systems and Swimming Pools
- Re-circulation Loops
- Chlorine or Bromine Tablet Feed System
- Chlorinator or Brominator
- Hexametaphosphate Feeder

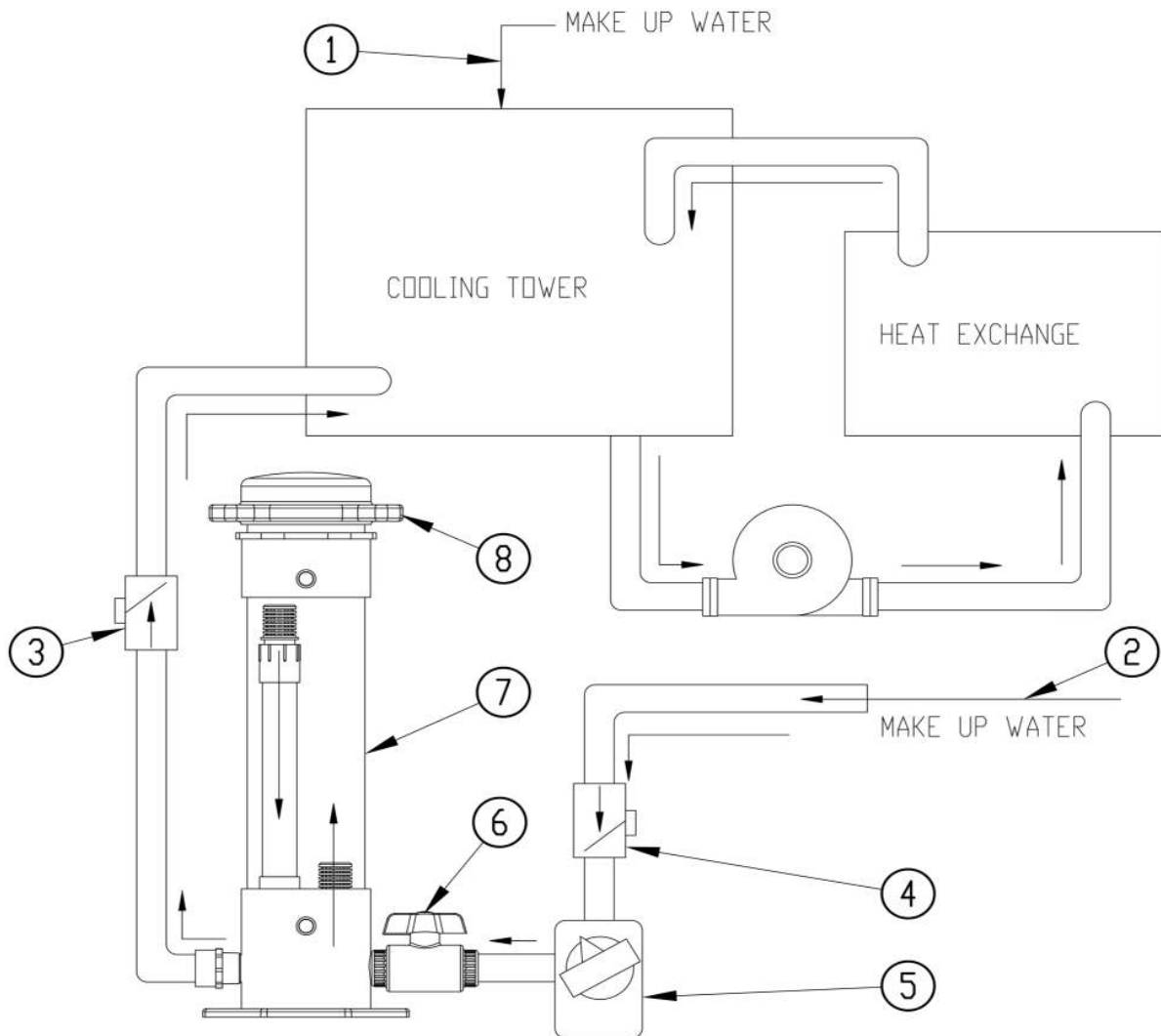


# Specifications

MODEL	MATERIAL CAPACITY	COLOR	DIMENSIONS (H X W)	INLET DIAMETER	OUTLET DIAMETER	FLOW RANGE
<b>Biomate 2000-15</b>	15 lbs (6.8 kg)	Clear	21 in. x 15 in.	1 inch	1 inch	1 to 10 GPM
<b>Biomate 2000-15W</b>	15 lbs (6.8 kg)	White	21 in. x 15 in.	1 inch	1 inch	1 to 10 GPM
<b>Biomate 2000-25</b>	25 lbs (11.3 kg)	Clear	33 in. x 27 in.	1 inch	1 inch	1 to 10 GPM
<b>Biomate 2000-25W</b>	25 lbs (11.3 kg)	White	33 in. x 27 in.	1 inch	1 inch	1 to 10 GPM
<b>Biomate 2000-50</b>	50 lbs (22.6 kg)	Clear	57 in. x 51 in.	1 inch	1 inch	1 to 10 / 5 to 20 GPM
<b>Biomate 2000-50W</b>	50 lbs (22.6 kg)	White	57 in. x 51 in.	1 inch	1 inch	1 to 10 / 5 to 20 GPM

# Technical Diagram

## All Biomate Variations

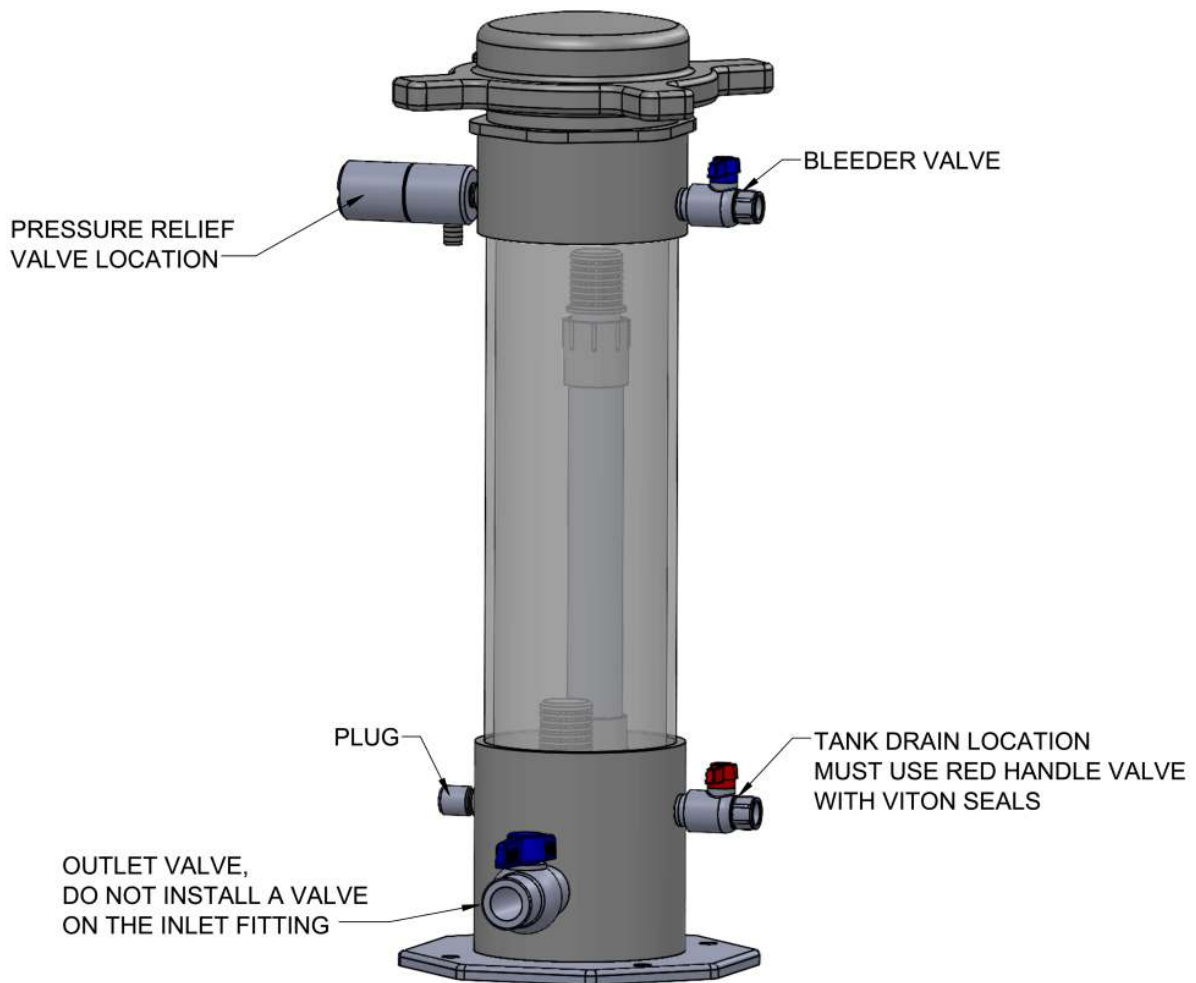


NOTE:  
 \*DO NOT REPLACE CHECK VALVES WITH BALL VALVES.  
 \*\*DO NOT ISOLATE FEEDER WITH BALL VALVES.  
 PERFORMING EITHER OF THESE PRACTICES WILL RESULT IN TANK DAMAGE!

CALL-OUTS: BIOMATE FEEDER	
1	MAKE-UP WATER: (TOWER)
2	MAKE-UP WATER: INTO BIO FEEDER (DEDICATED)
* 3	BACK-CHECK VALVE
* 4	BACK-CHECK VALVE
5	MOTORIZED BALL VALVE
6	ISO/BALL VALVE: BIO-FEEDER SUPPLY
7	BROMINE FEEDER: BODY
8	BROMINE FEEDER: CAP/CLOSURE

# Technical Diagram

## Biomate Valve Package



# Instructions

## Caution

### Personal Safety

- Exercise extreme caution when opening or servicing the feeder. **DO NOT INHALE FUMES.**
- When servicing the unit, wear required PPE (polyvinyl gloves, safety glasses, etc.) as identified on the SDS of the chemical being used.

### Explosion & Fire Risk

- **NEVER MIX** BCDMH with Trichlor, Calcium hypochlorite, with forms of concentrated chlorine, or with other chemicals. **FIRE AND/OR EXPLOSION MAY RESULT.**

All units are pressure-tested prior to shipping and rated to operate with a pressure relief valve set at 125PSI. To prevent buildup of gas and resultant over-pressurization:

- Make certain the discharge line to the feeder is unrestricted, preferably open to atmosphere
- NEVER add automated control valves downstream from unit
- Never isolate the unit by closing both fill/supply and discharge/exit. Doing so with product still in the feeder, can potentially result in over-pressurization leading to a possible explosion.

### Torque risk

- Do not over-tighten plastic fittings. They will break.

## To Open The Biomate

**Always shut off the pump before servicing the tank. Exercise caution and use local lock out tag procedures if necessary to ensure nobody can turn the pump on while servicing.**

1. Isolate the Biomate by closing the inlet ball valve.
2. Open the drain/bleed valves as needed.
3. Carefully unscrew the closure & allow the unit to drain
4. Do not inhale fumes
5. Do NOT strike closure with a metal hammer to loosen.

## To Close The Biomate

1. Check that the sealing O-Ring is in place inside the cover.
2. Check that all drain/bleed valves are closed.
3. Adequately lubricate O-Ring & sealing surface.
4. Replace cover on unit and seal tightly.
5. Open the inlet ball valve and return to service.

## Lubrication

- Use only Silicone-based lubricants on the closure O-Ring and sealing surface.
- Never use petroleum-type lubricants or vegetable oil.
- If the cover does not turn on easily, check that threads are free of debris and apply more lubricant as needed.

## Winterizing

In situations where freezing temperatures can be expected, follow the "opening" procedure and drain all water from the BioMate.

Carefully remove undissolved tablets.

**Warning** - When cleaning out the Biomate chemical feeder:

- Exercise caution and wear protective PPE such as gloves and safety goggles
- Check with the manufacturer regarding chemical disposal
- Thoroughly rinse the Biomate with water
- Proceed to place the closure back on the unit and leave all valves shut

# Featured Accessories

View all compatible accessories for our Biomate 2000 Series at [vector-industries.com](http://vector-industries.com)



## BioFunnel (4060F)

This funnel is designed to make it easier when adding chemical to your Biomate 2000 or Economate biocide feeder. You can add chemical to your feeder without the worry of dangerous spills.

### COMPATIBLE WITH

- Biomate 2000 Series
- Economate Series



## Pressure Relief Valve (PRV-125)

This thermoplastic-diaphragm pressure relief valve is the perfect insurance policy that protects your biocide feeder from over pressurizing. If for any reason pressure starts to build up in your biocide feeder, the diaphragm is forced up to relieve any excessive pressure. Comes in two variations of 80 or 125 PSI.

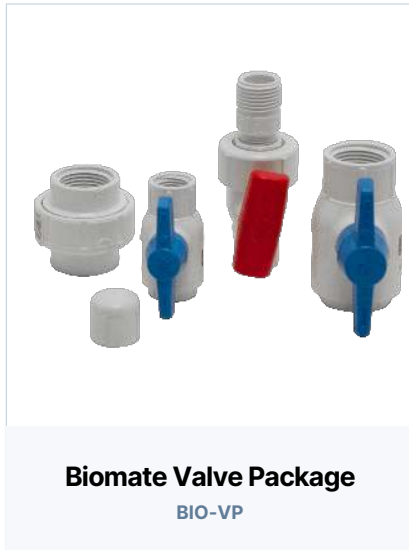
### SPECIFICATIONS

**Pressure Rating** 125 PSI

### COMPATIBLE WITH

- Biomate 2000 Series
- Economate Series





## Biomate Valve Package (BIO-VP)

This package includes everything you need for the Biomate 2000 Series. Made out of durable PVC, this package includes color-coded valves, unions, and cap.

### COMPATIBLE WITH

- Biomate 2000 Series