OFF-LINE CHEMICAL FEEDER INSTALLATION & OPERATION

CMP# 25280-300

POWERclean ULTRA

No special venting required.
Completely enclosed - no escaping gases.
Positive external no-clog control valve.

No equipment damage
Feeds sanitizer directly.
All parts replaceable.

To prevent over chlorination during use, completely close the control valve and the built in check valve will prevent chemical from being fed into the pool or spa.

Your CMP POWERclean Feeder is the best automatic feeder that you can buy, however it can be dangerous! Please follow the instructions exactly and note all warnings. Your safety and the protection of your system are at stake!

Read all information before proceeding with any installation. The information will help you install your feeder properly and avoid problems.
IF YOUR POOL OR SPA HAS COPPER PLUMBING DO NOT INSTALL.
This will damage the feeder. NOTE: If heaters are used, and Fireman's Switch or equivalent must be installed to prevent possible damage and improper operation of Check Valve and other equipment subject to heat damage. This product is designed to be installed above the water line.
DO NOT INSTALL BELOW WATER LEVEL.

INSTALLATION INSTRUCTIONS:
The POWERclean Off-Line Chlorinator is designed for use on existing pools and spas or new pools and spas that are impractical for permanent installation into the return line. The outlet line must always be installed after the heater, pool cleaner, valves, etc. Note: Heater and other equipment may be damaged by highly chlorinated water. If the pool has a heater, install the line to the feeder between the filter and heater. If there is no heater then install the feeder after the filter and all other equipment. Install the feeder in an upright position. Always install feeder as far from and metal components as possible as fumes can cause corrosion.
Position the feeder close to the filter and cut tubing to desired lengths being careful to cut the ends straight.
Attach the inlet line to the feeder by pushing the black compression nut over tubing and then push tubing onto the tapered end of the feeder. Tighten the nut firmly by hand.
For using hard PVC pipe (not included) use the white nut and 1/2" schedule 40 PVC pipe.
Refer to the drawing on the next page to attach the outlet line to the feeder. Be sure not to overtighten - this may cause damage to the threads. Push the compression nut over the end of the tubing then push tubing onto tapered end of the elbow. Tighten the nut firmly by hand. Install the inlet line in the plumbing (line going to feeder). First, turn off the pump and timer switches. Drill 3/4" hole in plumbing, remove burrs, and install the clamp assembly (refer to drawing on next page). Attach the inlet line by pushing the compression nut over tube end then push tube onto the tapered end of the tube fitting. Tighten nut firmly by hand. Install the outlet line in the plumbing (line from feeder).
Note: Be sure this hole is after the heater, filter, valves, etc. Install clamp assembly. Attach outlet line by pushing the compression nut over tube end then push tube onto the tapered end of the tube fitting. Tighten nut firmly by hand.

OPERATING INSTRUCTIONS:
Fill the feeder with water making sure to bleed out any entrapped air in any of the lines. Before starting the feeder, to ensure maximum effectiveness of the feeder the pool should be properly conditioned and the residual should be 1.0 to 1.5 ppm. Consult your local dealer for water conditioning information in your area.
1. Remove cap of feeder and fill with proper size tablets. (For pools: 1" or 3" diameter tablets. For spas: 1" tablets)
2. Replace cap making sure o-ring is clean, lubricated, and in place.
3. Turn on pump and timer switches for a minimum of 6 to 8 hours.
4. Adjust the control valve according to the size of the pool/spa. Use a test kit to determine the chemical residual. It is recommended that the chemical residual be checked daily for the first five days. Note: Hot weather, high water, and increased use will cause the pool/spa to use more chemical. Increase the feed rate a few days in advance when possible. The valve settings may require changes depending on the conditions.

RECHARGING THE FEEDER:
1. Turn control valve to the closed position. SHUT OFF PUMP.
2. Wait one minute allowing the water and fumes to drain from the feeder.
3. Leave the control valve closed and turn on the pump. (The check valve will prevent water from entering the feeder).
4. Remove cap and fill with tablets.
5. Replace cap making sure o-ring is clean, lubricated, and in place. (Hand tighten only).
6. Open control valve to original setting. Inspect the inlet line below the control valve each time the feeder is recharged. Replace the lines yearly if needed.

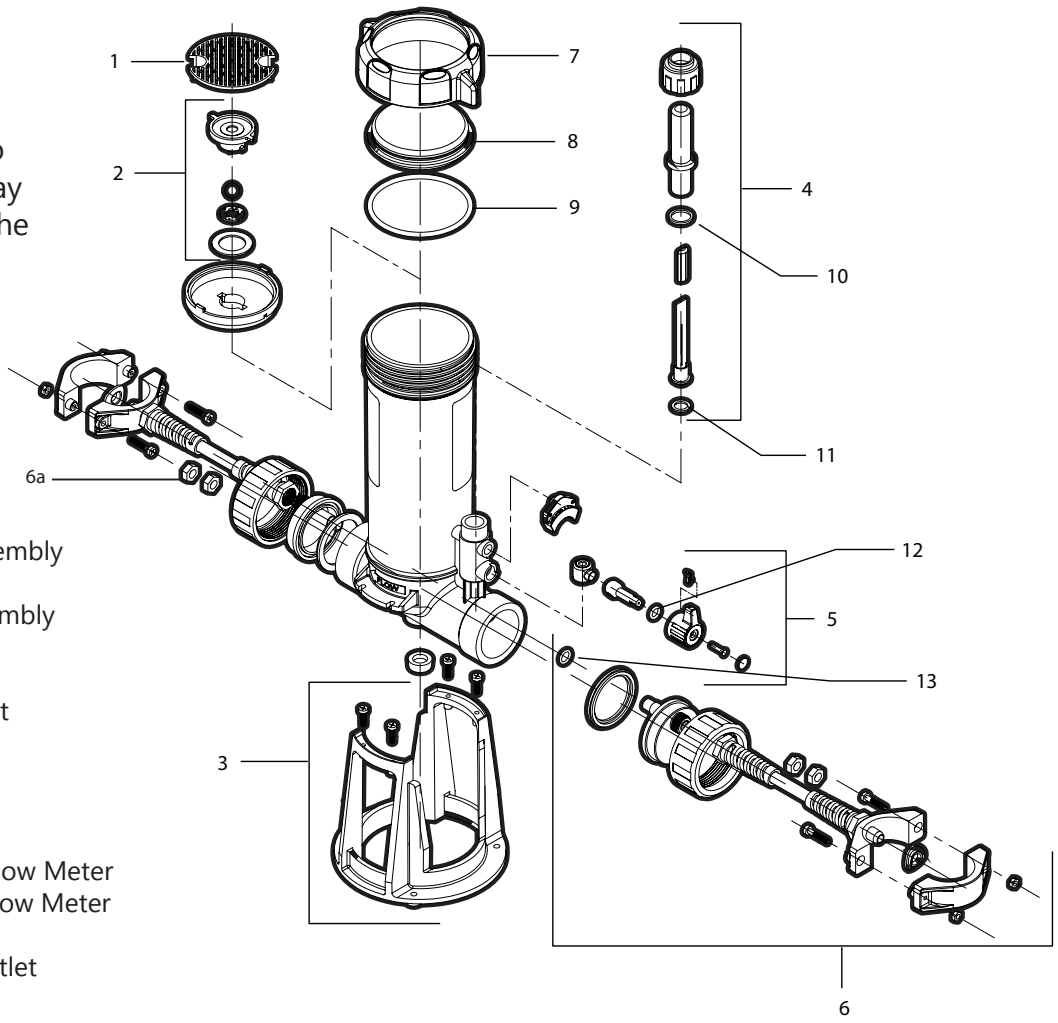
SPECIAL INSTRUCTIONS:
If the feeder does not provide enough chemical residual when using 3" tablets, switch to 1" tablets. Smaller tablets erode faster producing more residual.

WARNING

This feeder is designed to use only Trichlor-s-triazinetrione OR Bromine tablets- slow dissolving type. UNDER NO CIRCUMSTANCES MIX Trichlor or Bromine with Calcium Hydrochlorite, with other forms of concentrated chlorine or with other chemicals. FIRE AND/OR EXPLOSION MAY RESULT. NEVER use oils or grease to lubricate o-ring. Oil in contact with Trichlor OR Bromine may result in FIRE. Lubricate o-ring with approved silicone o-ring lubricant only. If you are not the original owner of this feeder, or not sure which chemical was used, be SAFE and flush thoroughly with fresh water. CAUTION SHOULD BE USED WHEN REMOVING CAP. DO NOT INHALE FUMES.

BROMINE MAY BE SUBSTITUTED FOR TRICHLOR IN THIS FEEDER. DO NOT MIX.

CAUTION: Do not install feeder into copper plumbing. Pipe damage may occur. Never install feeder before the heater. Heater damage may occur.



1	25280-100-005	Grate
2	25280-000-920	Check Valve Assembly
3	25280-300-970	Base Assembly
4	25280-100-950	Flow Meter Assembly
5	25280-100-930	Dial Assembly
6	25280-300-980	Clamp Assembly
6a	25280-300-006	Compression Nut
7	25280-100-001	Nut, Cover
8	25280-109-002	Cover (Clear)
	25280-100-002	Cover (White)
9	26101-060-529	O-Ring, Cover
10	26203-021-250	O-Ring, Upper Flow Meter
11	26202-115-020	O-Ring, Lower Flow Meter
12	26100-100-330	O-Ring, Dial
13	26101-230-262	O-Ring, Inlet/Outlet

SAFETY CAUTION

Most pool plumbing is not airtight. The mixture of air and chlorine is highly corrosive to metals. This is not a concern when the circulating system is running, however it is important to protect these items from corrosion when the system is turned off.

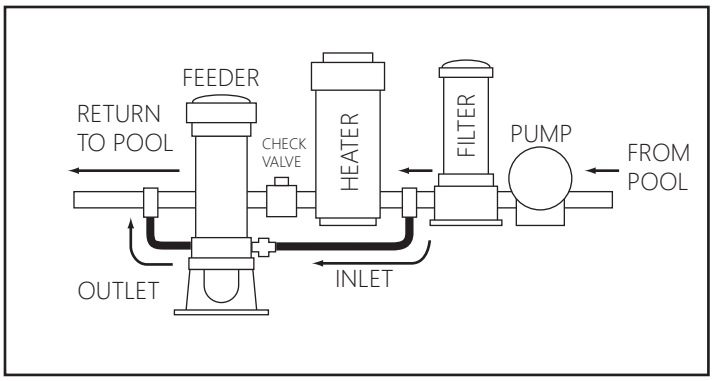
Even without a chemical feeder metal corrosion or erosion can still occur. This could be due to excessively high water velocity, water pH less than 7.2, or a total water alkalinity less than 100 PPM.

If your pool or spa has any of the following special equipment, special procedures must be followed for safe operation with the feeder:

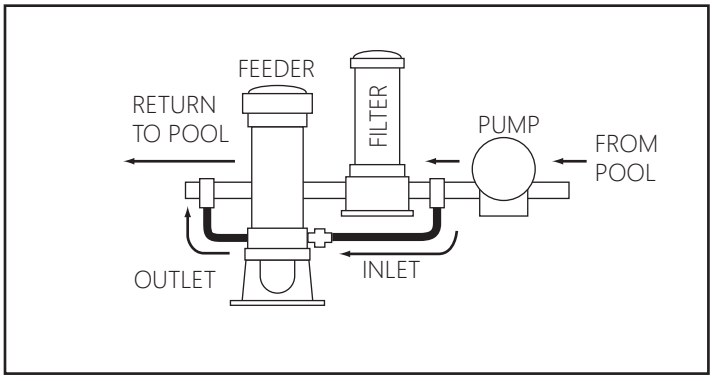
- Brass or bronze gate, rotary, or backwash valves
- Plastic gate, rotary, or backwash valves with metallic shafts
- Filters, heaters, heat exchanges or other items with metallic parts
- DO NOT USE WITH COPPER PLUMBING

Installation of the optional check valve (shown to the right) will prevent the backflow of corrosive liquids and gases that can damage equipment containing metallic parts.

WARNING: If your pool has a permanent built-in cleaning system, damage could occur to that system if materials are not compatible with low pH Tri-Chlor feeders. Check with the cleaner manufacturer for compatibility.



INSTALLATION WITH HEATER



INSTALLATION WITHOUT HEATER