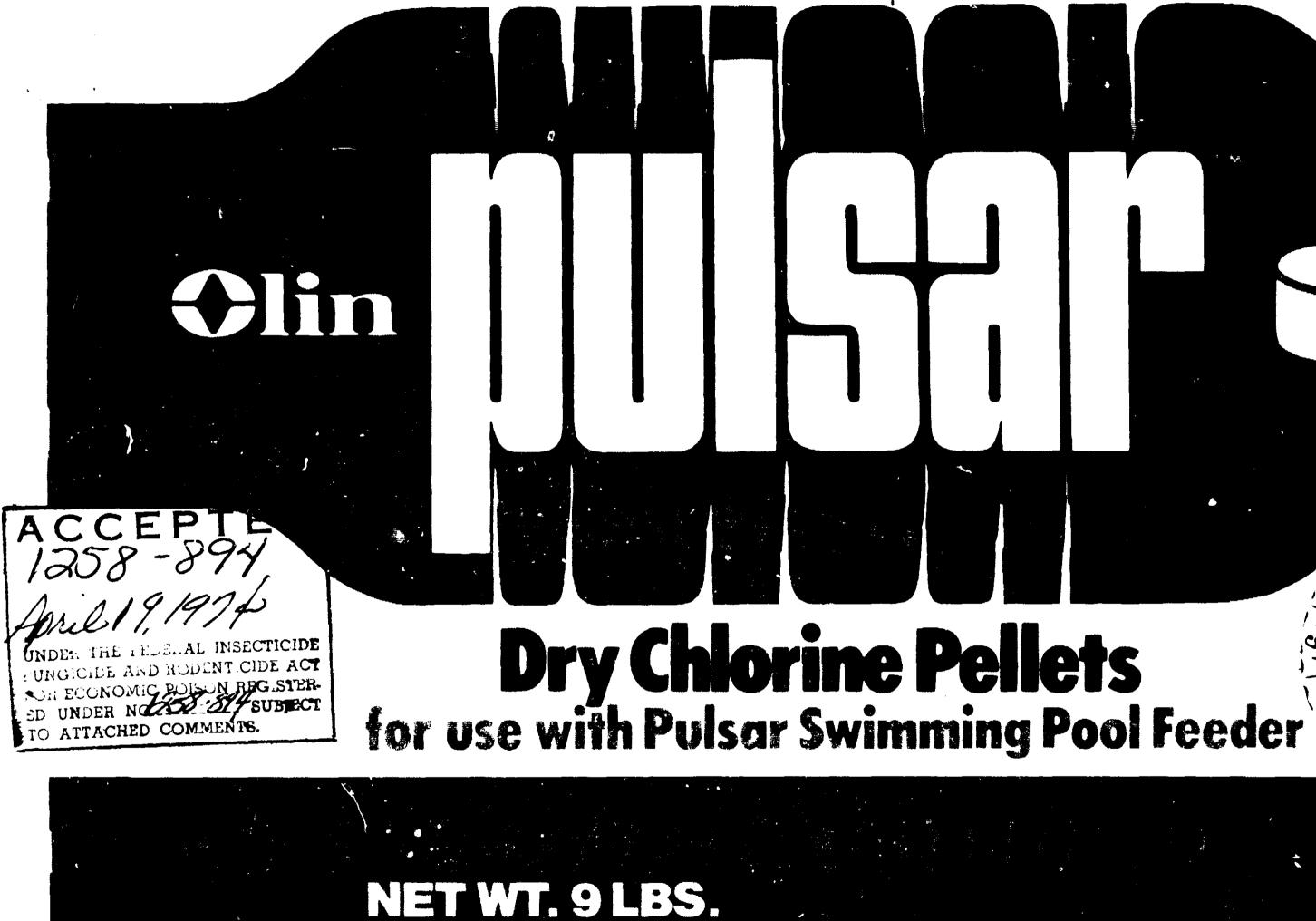
# New. Sparkling water automatically.



\*AVAILABLE CHLORINE **ACTIVE INGREDIENT:** Calcium Hypochlorite\* INERT INGREDIENTS:

9

**70%** 70% 3 30%

See First Aid statement and other precautionary statements on the back panel. Mix only with water. May cause fire if contaminated. EPA Reg. No. 1258 894 AA-50607

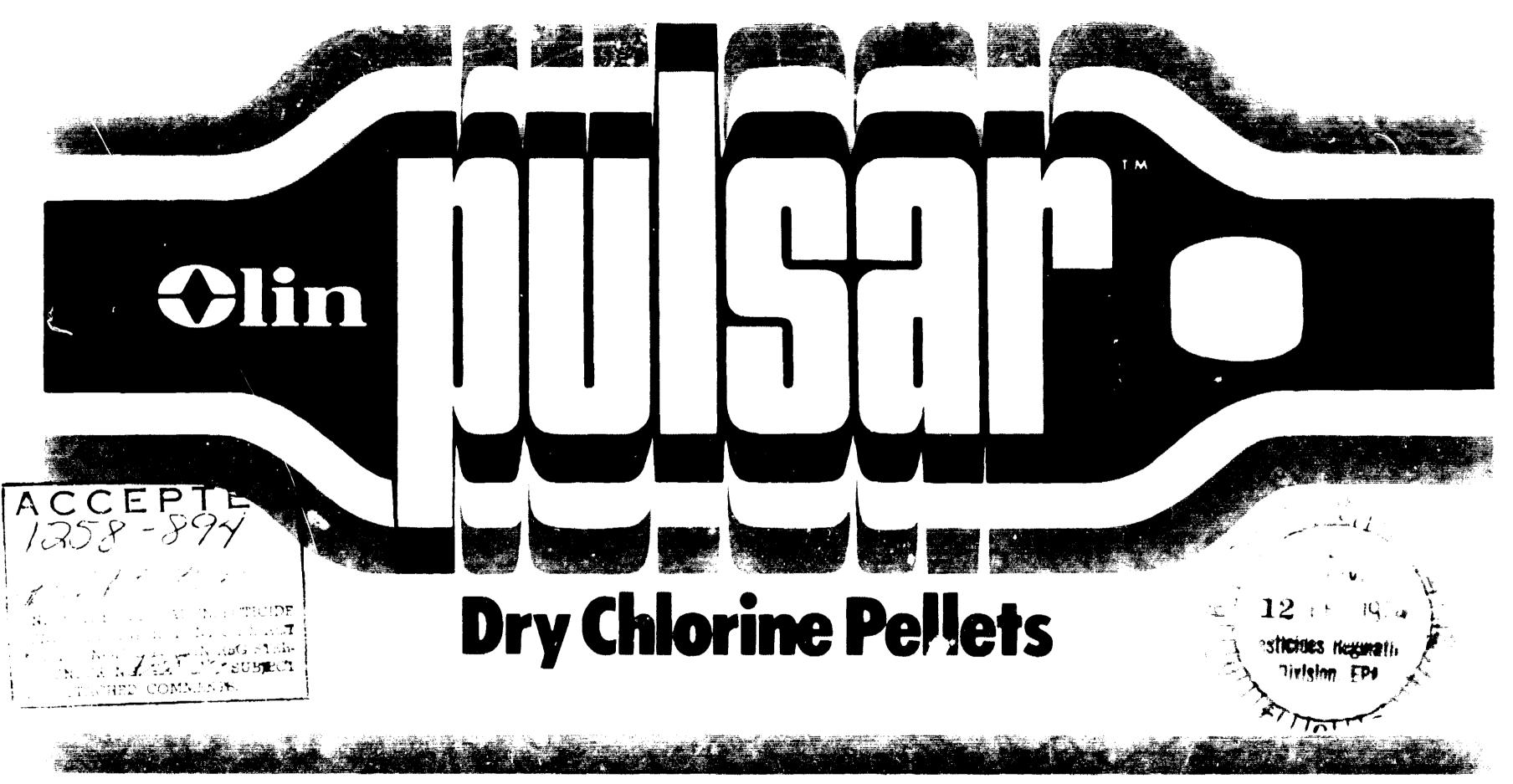
**KEEP OUT OF REACH OF CHILDREN** FATAL OR HARMFUL IF SWALLOWED

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# Sparking water automatically.



# NETWI.9LBS.

\*AVAILABLE CHLORINE 70% ACTIVE INGREDIENT: Calcium Hypochlorite\* **INERT INGREDIENTS:** 

70%

See First Aid statement and other precautionary statements on the 30% back panel. Mix only with water. May cause fire if contaminated. EPA Reg. No. 1258-894-AA-50607

# **KEEP OUT OF REACH OF CHILDREN** FATAL OR HARMFUL IF SWALLOWED



# **DIRECTIONS FOR USE:**

Easy to use Olin Pulsar Pellets, dry chlorine containing 70% available chlorine, are designed for use only with the Olin Pulsar Pool Feeder. Used according to the instructions provided with the feeder, the Olin Pulsar Feeder System provides a steady supply of available chlorine while the pool's filter pump is in operation controlling the growth of algae and effectively killing many bacteria which may be the cause of infections. Seven pellets (approx.) equal one ounce.

**1** Before use, read Installation Instructions and Operating Manual for your Olin Pulsar Pool Feeder.

2 Start the filter pump and check chlorine residual with a reliable test kit.

**3** Fill pellet container with Olin Pulsar Pellets. Adjust the inflow control knob so that the indicator ball is at the top mark on the indicator tube. Initially set the chlorine control dial to five (5).

4 After 24 hours, check the chlorine residual. If between 0.6 and 1.0 ppm, leave the chlorine control dial setting as is; if above 1.0 ppm, decrease the feed rate by setting the chlorine control dial to a lower number; if below 0.6 ppm, increase the feed rate by setting the control dial to a higher number. The pool should not be used until the 0.6 to 1.0 ppm chlorine residual is established.

5 Continue to monitor chlorine residual and to adjust the chlorine control dial setting until the residual remains between 0.6 and 1.0 ppm. Allow sufficient time (e.g. one day) after changing the chlorine control dial setting for the chlorine residual reading to readjust.

6 Always maintain ph between 7.2 and 7.6.

**7** For pools conditioned with cyanuric acid at concentrations up to 50 ppm, always maintain the chlorine residual at 1.0 to 1.5 ppm as determined by a test kit.

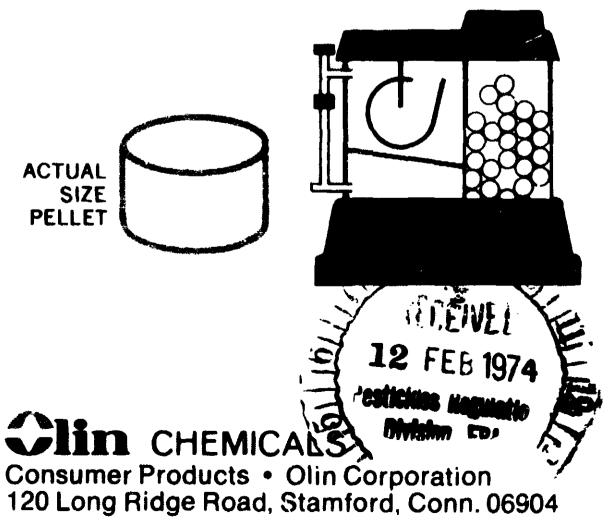
Approximate Pulsar Pellet feed rate per 12 hours of filter operation.

CONTROL DIAL SETTING	0	2	4	6	8	10
OUNCES OF PULSAR PELLETS	0	1	6	16	30	60

NOTE: If algae develops, fill container with pellets, set indicator ball to top mark and chlorine control dial to ten (10). Continue to run filter until algae condition is controlled, or until the chlorine residual is 5.0 ppm. Before entering pool, check chlorine residual, and if above 2.0 ppm allow pool to stand (set chlorine control dial to zero) until residual drops to 2.0 ppm. Then monitor chlorine residual until chlorine levels are as indicated in instruction 4 through 7.

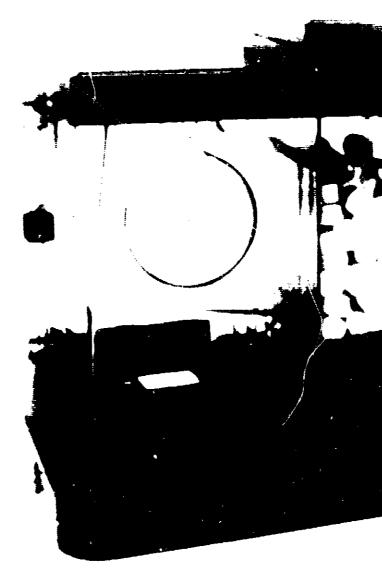
This product is texic to fish. Keep out of lakes, streams, or ponds. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on the label.

**First Aid:** EXTERNAL-Flood skin or eyes with plenty of water for 15 minutes. If irritation to skin persists, get medical attention. For eyes—call physician immediately. **RNAL**—Drink milk, gelation solution or whites. Follow with milk of magnesia, or vegetable oil. Call physician immediately.



DANGER! FATAL OR HARMFUL IF SWALLOWED. MAY PRODUCE SEVERE CHEMICAL BURNS. DO NOT ALLOW CONTACT WITH EYES, SKIN, MUCOUS MEMBRANES OR CLOTHING. STRONG OXIDIZER, CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE: Keep from contact with clothing and other combustible materials. Do not store near combustible materials. Remove and wash contaminated clothing promptly. While Puisar Pellets themselves are not a combustible material, they must not be mixed or contaminated with any foreign material such as household products, soap products, paint products, garbage, solvents, acids, pool chemicals, vinegar, beverages, oil, pine oil, dirty rags, etc. Contamination or mixing with these types of chemicals and products may result in fire and the fire can be of great intensity. Prevent any burning material such as a lighted cigarette from falling into product. Drench fires with water. Flush spilled product with water. Dispose of spilled product by flushing with large amounts of water. Keep in cool, dry place in original container. Always replace cap. Wash empty container thoroughly with water and discard. Do not reuse empty container.

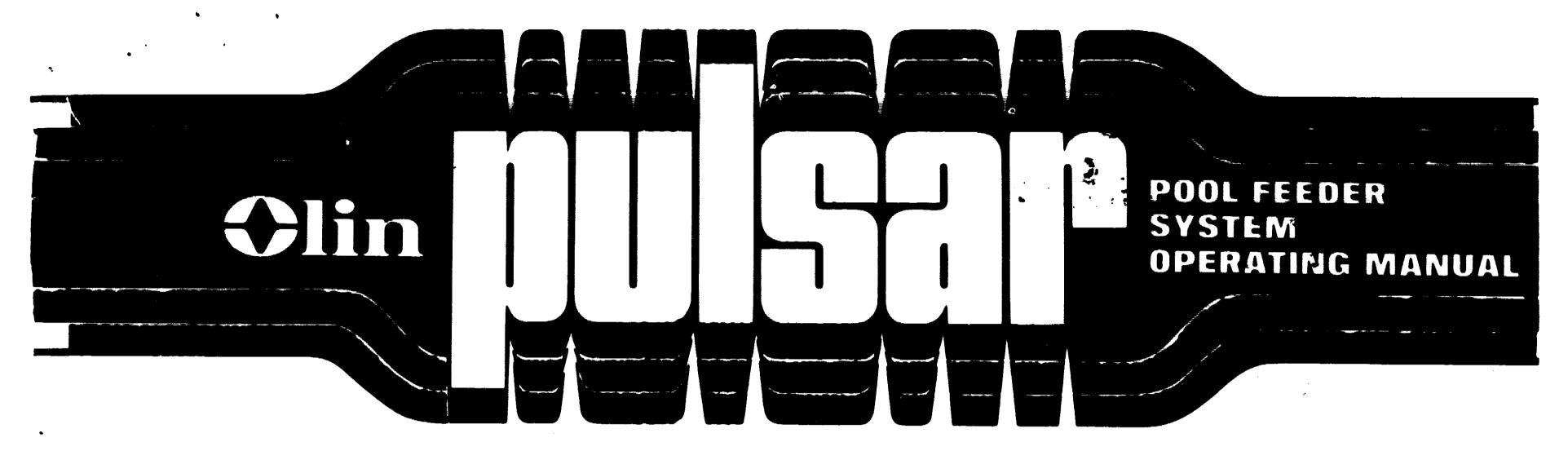








# FROM THE WATER SCIENTISTS AT Olin



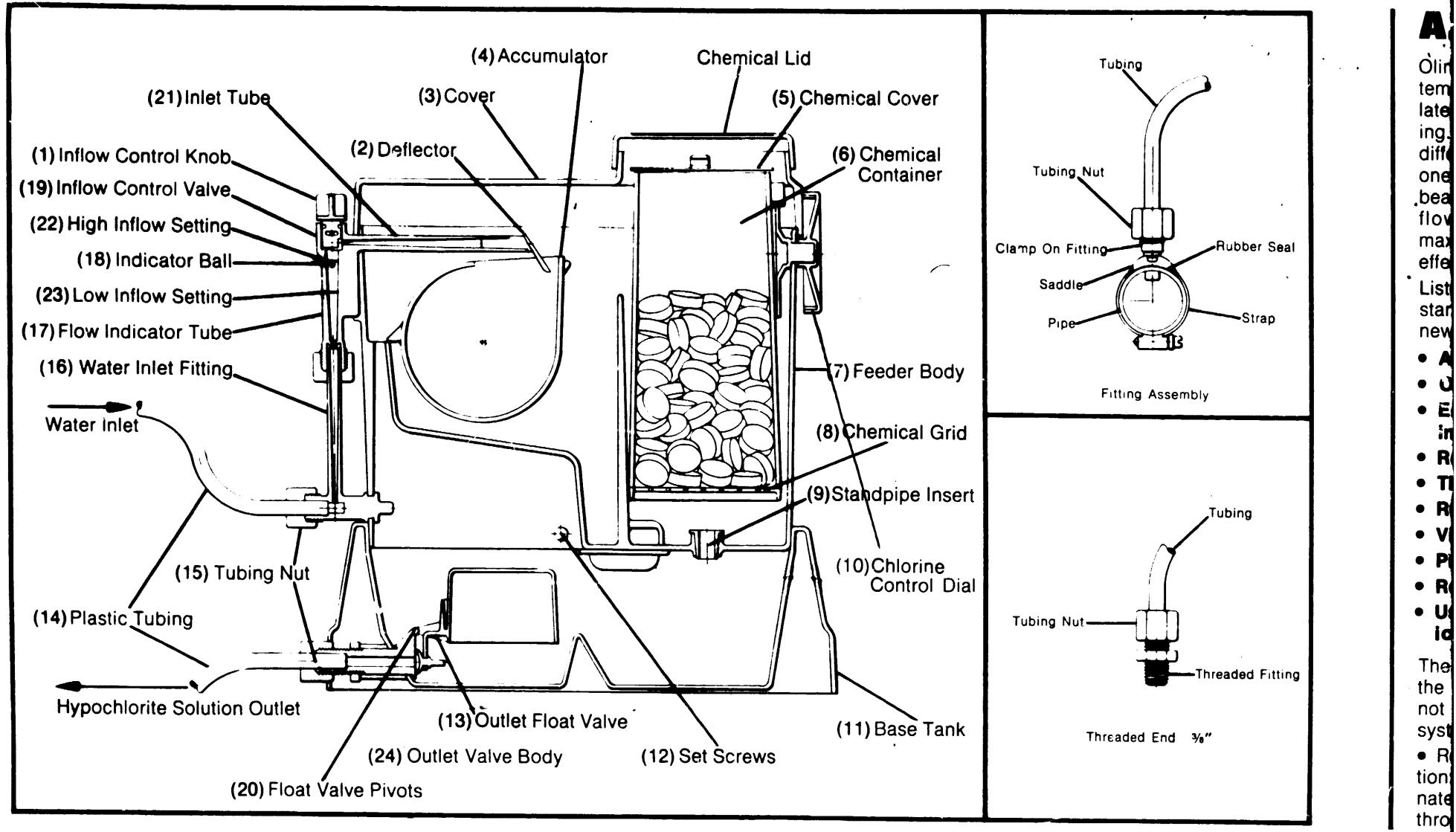
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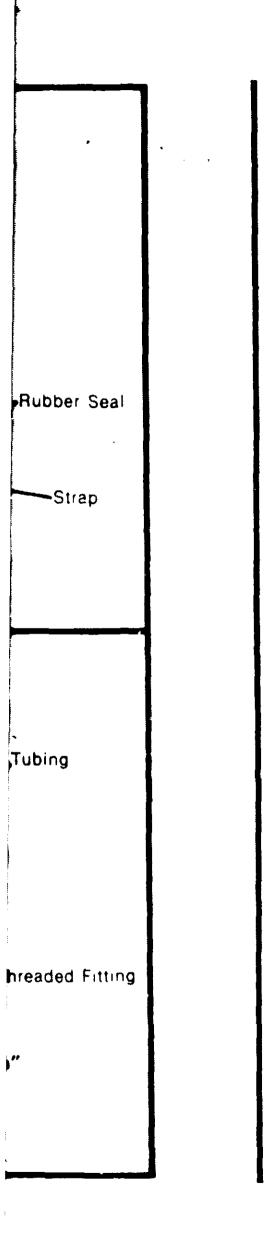


# FROM THE WATER SCIENTISTS AT Olin



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# A. FEATURES

Olin's new Pulsar Pool Feeder System is the result of years of accumulated experience, research, and testing. It is a totally new and completely different swimming pool chlorinator one that will keep your pool water beautiful with reliable service. This flow-through type feeder provides maximum algae control and highly effective bacterial action.

Listed below are some of the outstanding features of this revolutionary new swimming pool chlorinator:

- Automatic
- Operates with Filter System
- Eliminates need for Daily Chlorination by Hand
- Reliable
- Three Year Warranty
- Rugged Construction
- Visible Cyclic Action
- Precise Chlorination Control
- Readily Adjustable Feed Rate
- Uses Specially Formulated Chemical Pellet

The Pulsar Pool Feeder incorporates the following operating advantages not available in other pool feeder systems:

• Reduces Need for Superchlorination: Every feeder cycle superchlorinates a portion of the water going through the filter system.  Chlorine Feed Rate Easily Adjusted: Just a turn of the calibrated control dial precisely controls the chlorine feed rate.
 able of supplying sufficient chlorine to shock treat practically any residential pool.
 Can Be Installed Indoors or Within

rine feed rate.
Extremely Wide Chlorine Feed Rate Range: Capable of feeding anywhere from 0 to 5 pounds of Pulsar Pellets per day.
Can Be !nstalled Indoors or Within Other Enclosures: Feeder does not give off toxic or noxious gases that would preclude installation in enclosures.

System will operate with minimum pressure and suction in the filter system.
Visual Indication of: water inflow rate
Economical to operate: Chemical cost is much lower per pound than expensive cartridges. In addition, chemical usage is reduced over hand feeding, resulting in extra savings.

 Visual Indication of: water inflow rate filter system pressure variations check valve function Pulsar Pellet supply outflow operation

• Operation Unaffected By Pressure Changes: The water inflow/outflow balance is maintained automatically as pressure and vacuum change in the filter system.

• Maximum Pump and Filter Protection: The hypochlorite solution is mildly alkaline, so it is far less corrosive to the filter system components than acidic chlorine products.

• No Development of Supersaturated Chlorine Solution During Periods When Pump Is Off: Since Pulsar Pellets do not come in contact with the water in the feeder when the pump is off, the concentration of the chlorine solution fed into the filter system on start-up will be normal.

• Can be Used to Shock Treat Pool: If the need arises the feeder is capYour Pulsar Pool Feeder was designed to use Olin's Pulsar Pellets, the dry chlorine pellets specially formulated for economical, effective operation of the Pulsar Feeder. Accept no substitutes.

# **B. START-UP**

Reconnect, as necessary, inlet and return lines.

**2** Check to be sure:

- accumulator is in body slots and free to rotate.
- pellet container is removed and clean.
- there are no leaks.

Se Remove chemical cover(5), and chemical container(6) from feeder.

• Open valves between filter system and pool.

**5** Turn on pump (prime if necessary). Check chlorine residual in pool with a reliable test kit.

**5** Fill chemical container with Olin Pulsar Pellets. Use only Pulsar Pellets in the Olin Pulsar Pool Feeder. Open inflow control valve(19) by turning inflow control knob(1) counterclockwise. Water should begin to flow from inlet tube (21) into accumulator.

**7** The chlorine feed rate is controlled by a combination of two feeder settings:

a. Chlorine Control Dial(10): determines the amount of water per cycle that contacts the feeder chemical.

b. Indicator Ball Setting: the indicator ball(18) shows the rate of water inflow into the feeder and therefore, the number of times (cycles) per hour the accumulator will fill and empty.

The correct setting of these two controllers for *your* pool is the combination that maintains a chlorine residual in your pool of between 0.6 and 1.0 parts per million. For pools conditioned with cyanuric acid at concentrations up to 50 ppm, always maintain the chlorine residual at 1.0 to 1.5 ppm as determined by a test kit. The chlorine requirement and, thus the setting necessary to maintain that residual, are based on *your* pool conditions (e.g. size, bathing load, temperature, amount of sunlight, etc.).

Adjust the inflow control knob so that the indicator ball is at the top mark on the indicator tube. Initially set the chlorine control dial to five (5) or reset to appropriate setting based on past experience.

After 24 hours, check the chlorine residual. If between 0.6 and 1.0 ppm, leave the chlorine control dial setting as is; if above 1.0 ppm, decrease the feed rate by setting the chlorine control dial to a lower number; if below 0.6 ppm, increase the feed rate by setting the control dial to a higher number. The pool should not be used until the 0.6 to 1.0 ppm chlorine residual is established.

Solution 2 Continue to monitor chlorine residual and to adjust the chlorine control dial setting until the residual remains between 0.6 and 1.0 ppm. Allow sufficient time (e.g. one day) after changing the chlorine control dial setting for the chlorine residual reading to readjust. In general, it is best to check the chlorine residual at the same time each day (e.g. early evening).

**10** Always maintain ph between 7.2 and 7.6.

**11** Remember, for pools conditioned with cyanuric acid at concentrations up to 50 ppm, always maintain the chlorine residual at 1.0 to 1.5 ppm as determined by a test kit.

**12.** Check all fittings for leaks. Tighten where necessary.

**13.** If your pools' daily chlorine requirements are very low, it may be desirable to re-adjust the indicator ball so that it is at the hash mark near the middle of the indicator tube. This adjustment should be made with the hair and lint trap clean. It will effec-. tively reduce the water inflow, and therefore, the number of cycles per hour and the amount of chlorine feed at each control dial setting.

14. If algae has developed (for example when you open the pool in the spring) you may wish to superchlorinate the pool. This can be done by filling the pellet container with, Pulsar Pellets, setting the indicator ball to the top mark and the chlorine control dial to ten (10). Continue to run the filter until the algae condition is controlled or until the chlorine residual is 5.0 ppm. Before entering the pool, check the chlorine residual, and if above 2.0 ppm, allow the pool to stand (set chlorine control dial to zero) until the chlorine residual drops to 2.0 ppm. Then monitor chlorine residual until chlorine levels are as indicated in instructions 8 through 11.

**Important:** Use only Olin Pulsar Pellets. Fire, explosion or generation of

toxic gai taminatic or other 1

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Note: P when tub

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Peln of toxic gases could result from contamination with other pool products or other foreign materials.

# C. SHUT-DOWN

The following steps should be followed for shutting down and winterizing the feeder:

Completely dissolve or other-•wise remove unused chemicals from chemical container. Rinse container thoroughly with water. Keep away from skin and clothing.

2 Close the inflow control knob when the accumulator empties.

**3** Turn off pump. Disconnect feeder inlet and feeder return connection by unscrewing tubing nuts (15). Drain tubing.

Note: Pump cannot be operated when tubing is disconnected.

-Rotate accumulator and empty completely.

5. Remove feeder body from base tank by unscrewing set screws (12).

**5**-Clean body by flushing with water. Wipe dry. Be sure all water is removed from accumulator.

T Clean and dry base tank.

B Replace body on base and

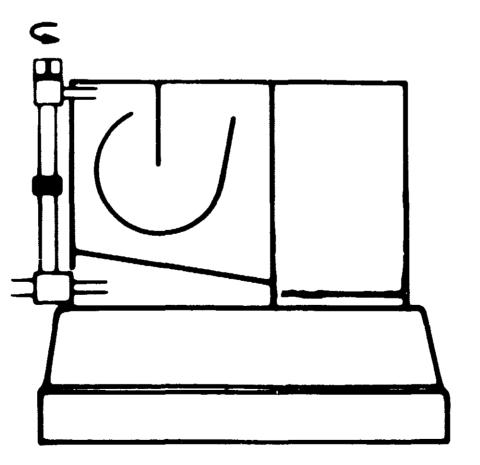
screws (don't overtighten set tighten).

9 Clean, dry, and replace chemical container and covers, and store for winter.

# **D. MAINTENANCE**

# I. Filter Backwashing

Always close the feeder inflow control knob before backwashing or other Filter Cleaning Operations to keep debris out of the feeder system. Reopen inflow control knob and reset indicator ball to correct setting (high or low), only after normal filter operation has been resumed for a few minutes.



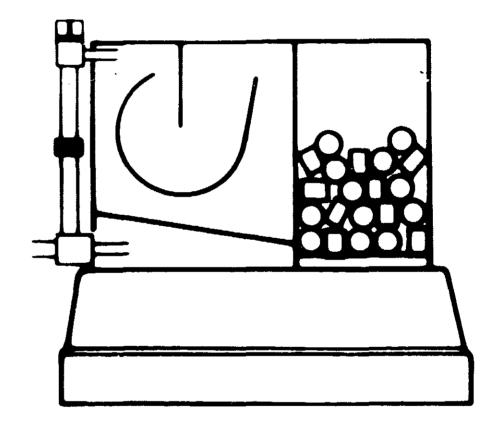
Note: A slight drop in indicator ball height can be expected as your filter



becomes plugged with debris towards the end of your filter cycle (i.e. as you approach the time when you backwash your filter).

# **Z.** Pellet Container Loading

It is recommended that no more than one months supply of Pulsar Pellets be placed in the chemical container when refilling. This may be less than half of the container capacity for small pools.



# **3**. Cleaning Cycle

The unit should be cleaned on a regular basis. At least once a month is recommended, though for many pools a more lengthy cycle may be possible. The proper operation of the feeder is dependent on timely removal of solids before they build up to a level that affects operation.

• Let pellets completely dissolve out of container prior to cleaning or otherwise remove them.

• Remove covers and chemical container.

• Clean container grid and container by immersion and agitation in a bucket of water. Avoid contact with skin and clothing.

• Heavy accumulations may require the addition of a few ounces of muriatic acid to the water before container immersion. If acid is used, thoroughly rinse container with clear water and dry before reinserting container in feeder.

• Clean out the dissolving chamber by using an absorbent cloth or paper towel.

• The base tank should also be rinsed out if the accumulation is heavy.

# **4.** Acid Cleaning Procedure

If mechanical cleaning of the pool feeder is impractical or not thorough enough, an acid cleaning process may be required.

Before proceeding, remove or completely dissolve Pulsar Pellets from Chemical Container.

**Danger:** Contact of Pulsar Pellets by muriatic acid will cause generation of toxic chlorine gas and may cause fire.

1. Set feeder control to 10.

2. Remove pellet container.

3. Close Inflow Control Valve.

4. Place foam sealing wafer, f down, over top of standpipe bottom of pellet dissolving ch

5. Replace empty container (C Be sure there are NO pellets tainer).

6. Open Inflow Control Valve accumulator dump, then close again.

7. Slowly add about 1/2 cu ounces) of Muriatic Acid to v Chemical Container.

8. Replace chemical cover and allow feeder to stand 2-3 (or until visible cleaning action

9. Lift Chemical Container s foam sealing wafer floats fre standpipe hole and allows c solution to drain into Base Ta

**10.** Again allow feeder to star to 3 minutes.

11. Open Inflow Control Valve

**12.** After at least two Accu dumps, remove Chemical Co rinse thoroughly with clear wa dry.

**13.** Remove foam sealing wafe and store for future use.

14. Reset control settings, add Pulsar Pellets to cleaned and dried Chemi- cal Container and begin normal op- eration.     Proble       Itat side in con- in con- for one ie valve     No wate       in con- for one ie valve     .       and lid minutes in stops).     .       so that bee from cleaning ank.     .       and for 2     .       e.     .       umulator intainer, ater and     .	1	14 Reset control softings add Pulsar		E. TR
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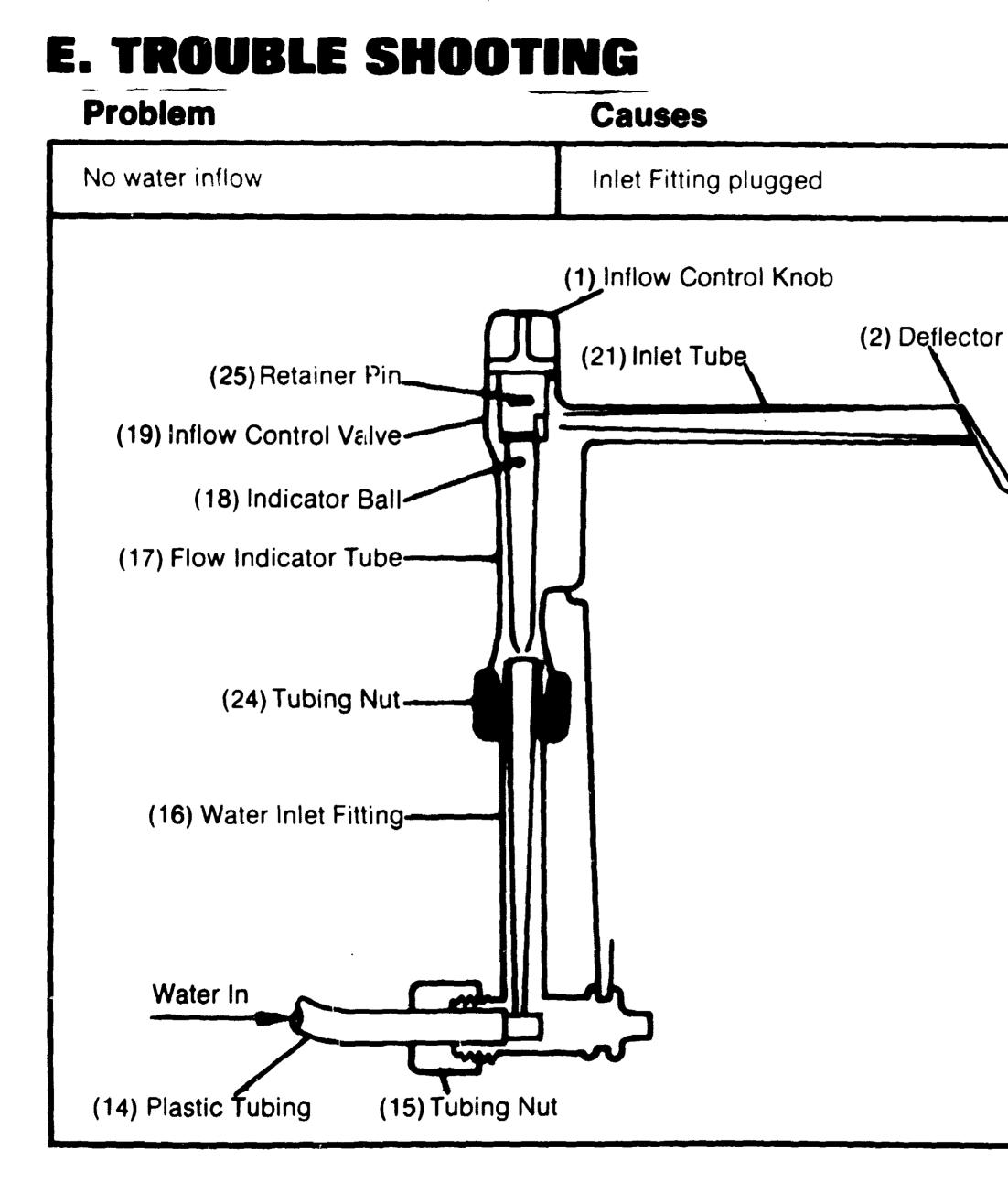
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# E. TROUBLE SHOOTING

Problem	Causes
No water inflow	Pump not primed
٩	Pump off
	Inflow control valve closed
	Plastic tube connecting with line clogged.
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# **Solutions**

	Prime pump. If repeatedly loose prime, locate air leak between pool and pump.
	Turn on pump.
d	Turn inflow control knob counter- clockwise to open control valve.
inlet fitting	Turn off pump and disconnect tube nut from feeder. Turn on pump. If flow is minimal turn off pump, discon- nect tube from line and check for blockage.



8



Indicator ball may just be stuck in bottom of flow indicator tube. Tap tube with fingernail to loosen ball extreme cases disassemble and free ball.

CI

Clean tube by turning off pump and:

• unscrewing TUBING NUT (24) at the bottom of the FLOW INDICA-TOR TUBE (17).

• remove the FEEDER BODY COV-ER and slide FLOW INDICATOR TUBE (17) upward.

• push the RETAINER PIN (25) out of the tube body and remove the INFLOW CONTROL KNOB (1) and the stainless steel INDICATOR BALL (18)

• A pipe cleaner may then be worked up and down through the throat at the bottom of the FLOW INDICATOR and used to wipe the internal surfaces of the body and external surfaces of the knob.

• The VALVE/INDICATOR is then reassembled, making certain that the INDICATOR BALL (18) is reinserted in the tube and that the INFLOW CONTROL KNOB (1) is reinserted so that the projection on the underside of the knob is opposite the INLET TUBE (21).

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Problem	Causes	Solutions
Leakage at tubing nut(s)	Nut(s) loose	Tighten
	Nut(s) cracked	Replace
• Leakage at chlorine control valve	Valve loose	Turn off Inflow Control Dial (1). Re- move pellets. Remove body from base by unscrewing set screws. Turn body on side and tighten control valve, hold down screw slightly. Re- assemble. Repeat if necessary. Don't over-tighten screw, may crack valve.
Accumulator won't dump	Not in slots in body	Remove covers, reposition accumu- lator in slots.
	Water not flowing into accumulator	Check to see if deflector is on inlet tube. If not, replace.
Accumulator will not return	Not in slots in body	Remove covers, reposition accumu- lator in slots.
	Water inflow is holding down	Reposition deflector on inlet tube or re-insert if fell out. Readjust flow rate.
No chlorine residual	Pellet container empty	Refill with Pulsar Pellets.
	Control dial setting too low	Increase setting to higher number.
	Water inflow too low	Set indicator ball to High setting.
	Chemical grid clogged	Clean grid per maintenance instruc- tions.

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# E. TROUBLE SHOOTING

Problem	Causes
No chiorine residual	Chlorine control dial clogge
Base tank overflow	Outlet valve clogged
	No pump suction or too low
	Feeder is below water level
Losing prime on pump	Outlet valve not sealing
	Air leak in tubing
	Air leak in pump suction line

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ed	Remove pellets and flush with clear warm water and move around, use cloth or brush if necessary.
	Turn off inflow, remove chemical con- tainer separate body from base. Clean base tank, float valve assem- bly, and outlet tube. Flush with clear water.
▶ .	Clean hair and lint trap, and filter.
	Reposition feeder above pool water level.
	Shut off pump, remove covers and Pulsar Pellets, separate body from base. Clean outlet valve and small suction cup shaped rubber seal.
	Check return line to pump for leaks. Tighten nuts on tubing.
	Check fittings on pipe or lint trap for leakage. Tapped fitting usually re- quires some type of sealing tape or compound to minimize leakage.
ne	Check hair and lint trap cover to be sure seal is OK, in place, and cover is on tightly.

# Olin Pulsar pool feeder system WARRANTY

Your new OLIN Pulsar Feeder System is warranted against defects in material and workmanship to the original owner for three years from the date of installation on the pool on which it is originally installed. It is the high quality engineered into your Pulsar Feeder System which makes this generous warranty possible. In order to record and validate the warranty on your feeder it is necessary that you mail the attached registration card within 30 days from the date of purchase and indicate on the card the date of installation.

This warranty provides for the repair or replacement of the Pulsar Feeder System without charge, or at OLIN's option, refund of the purchase price during the three year warranty period, provided the unit is delivered or shipped postpaid to Olin at the address listed below. Regulations require that any feeder shipped be clean, dry and free of all chemicals.

This warranty is void on any feeder that has been subject to improper installation, misuse, negligence, accident, abuse or if at any time a product other than OLIN Pulsar Pellets is used in the Pulsar Feeder System.

This warranty is in lieu of all other warranties, expressed or implied and no representative or person is authorized to assume for OLIN any liabilities in connection with the sale of Pulsar Pool



# CONSUMER WARRANTY REGISTRATION Ofin Pulsar pool feeder system

Name Address	Installed By: Builder  Dealer Serviceman Yourself
	Purchased For: New Pool  Existing Pool
Purchase Date	What is your regular brand of pool sanitizer
Installation Date	
Pool Gallonage	Have you previously used an automatic chlor-
Purchased From	inator? Yes No
CityState	If yes, what brand
Price	Why did you switch to Pulsar?
Model	



# Business Reply Mail no postage stamp necessary if mailed in U.S.A.

**POSTAGE WILL BE PAID BY:** 

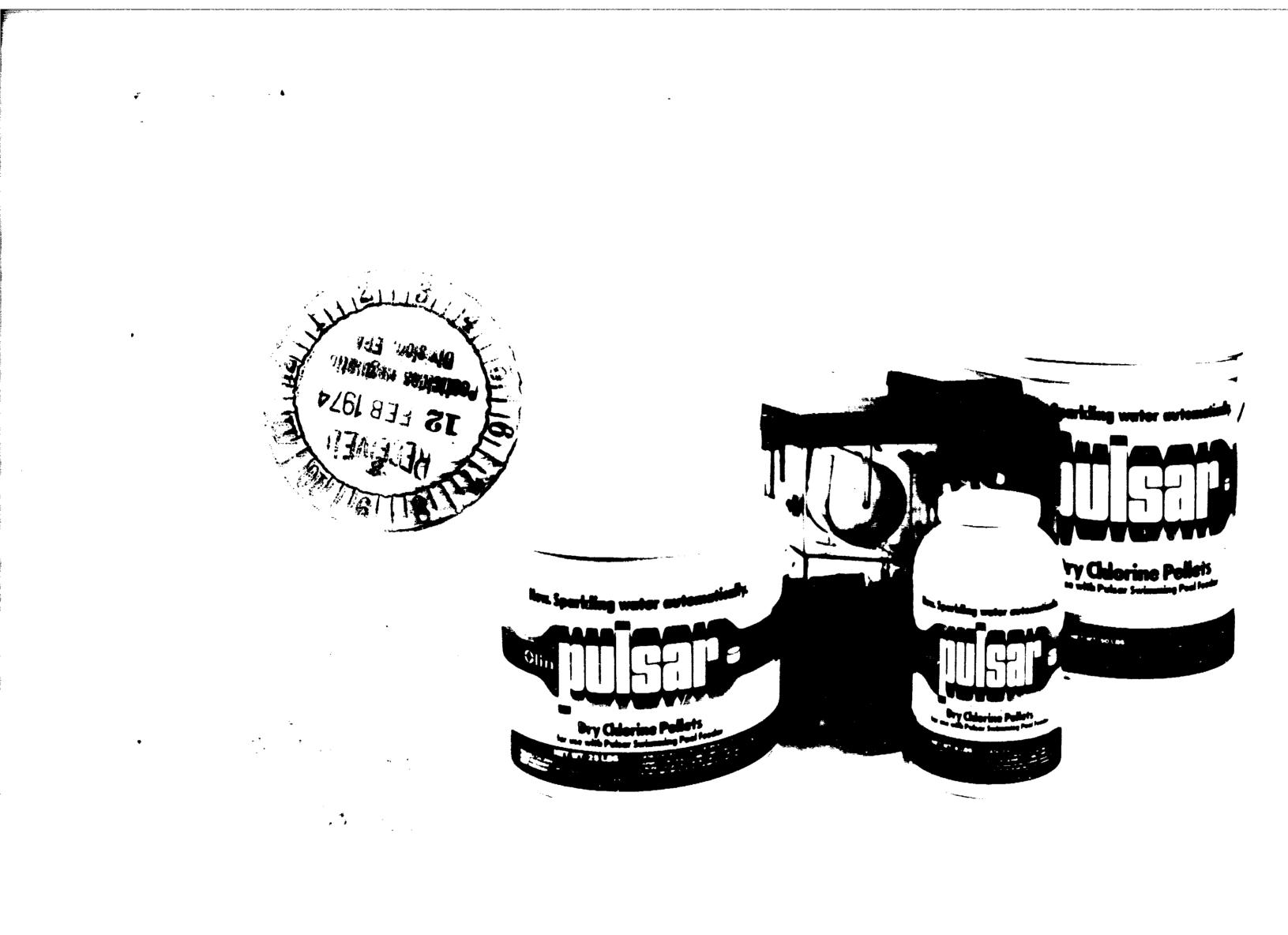
# Olin CHEMICALS

**Consumer Products Olin Corporation** 120 Long Ridge Road Stamford, Connecticut 06904

ATT: HTH ADVERTISING DEPT.

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FIRST CLASS Permit No. 1010 Mt. Vernon, N.Y.

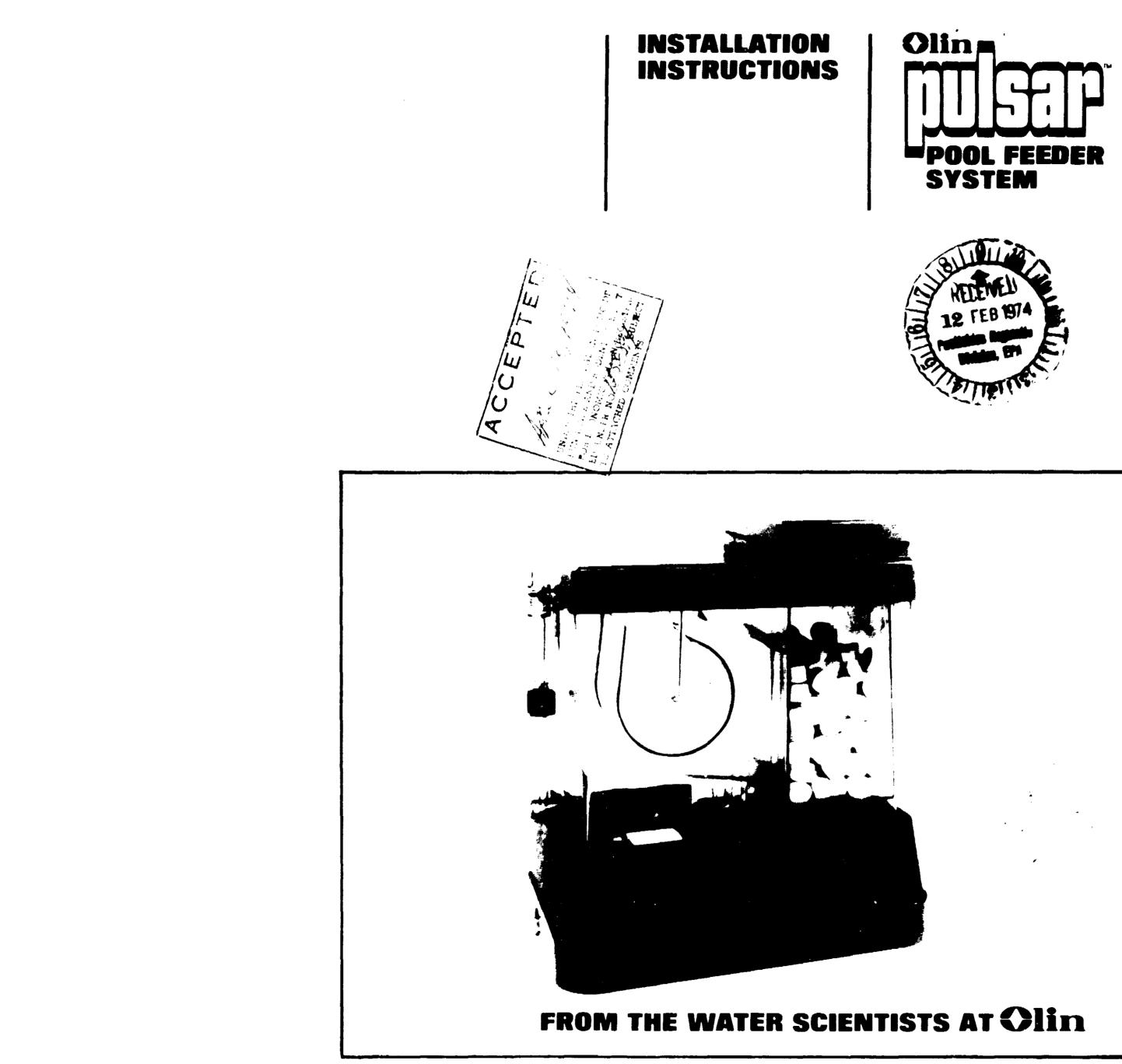


# Consumer Products, Olin Corporation, 120 Long Ridge Rd., Stamford, Conn. 06904

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Pulsar<sup>TM</sup> is a trademark of Olin Corporation



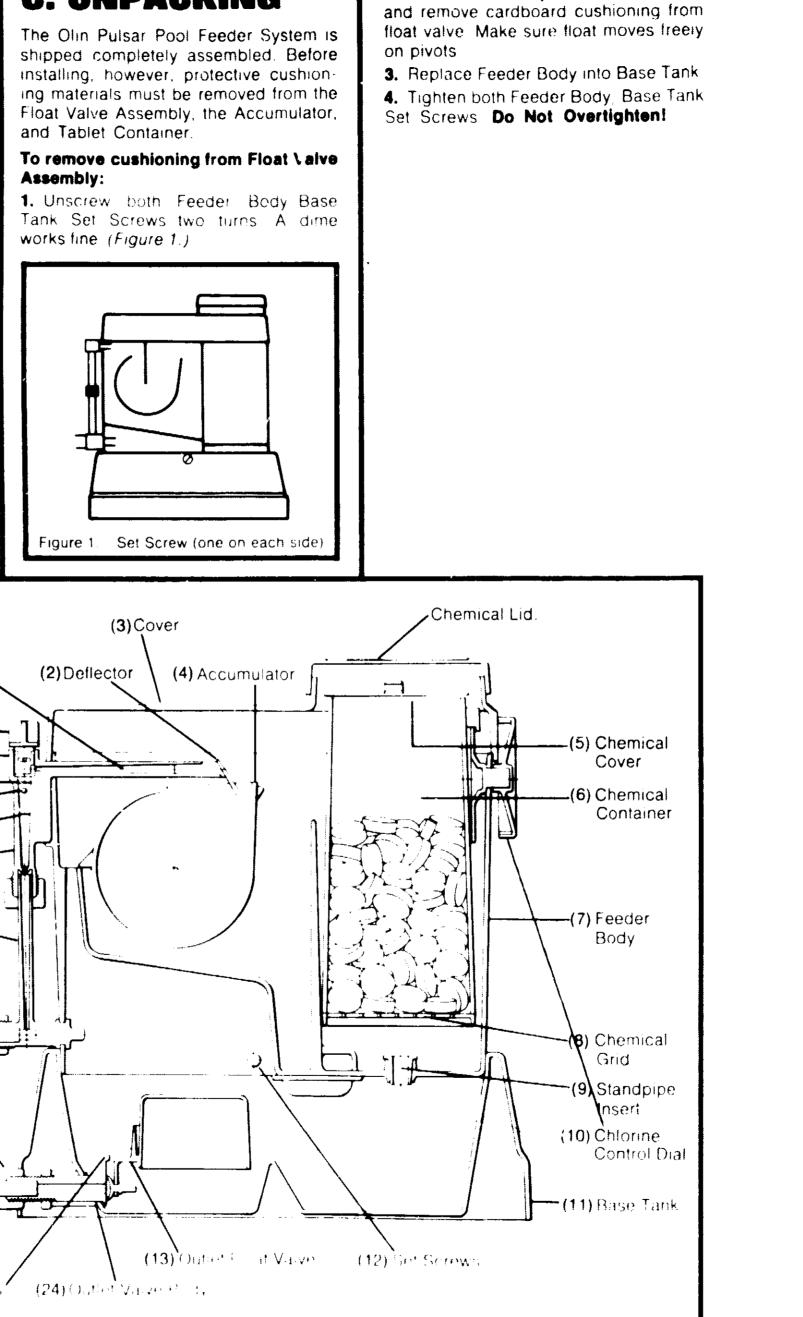


# **1. PREPARATION**

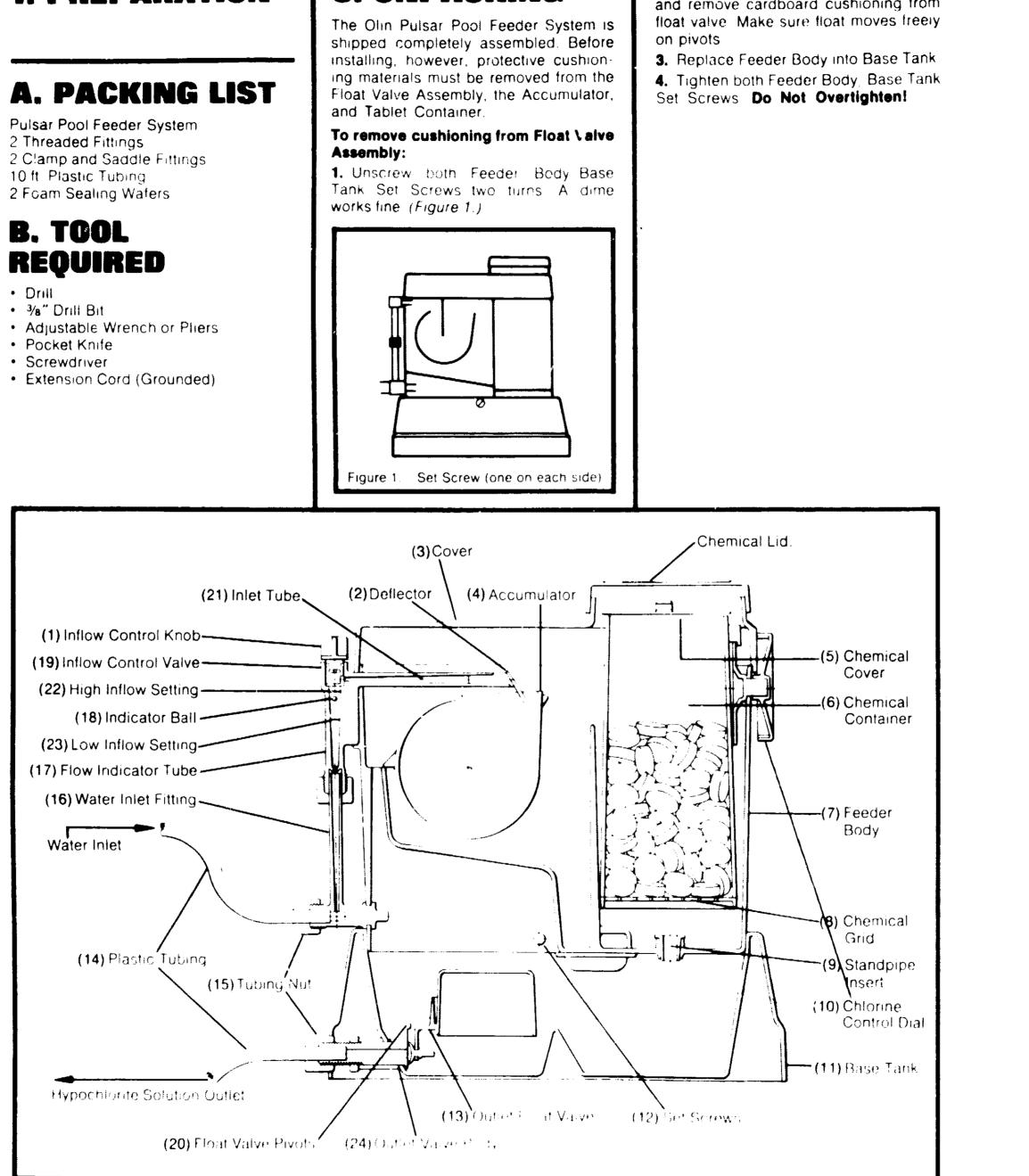
# **B. TGOL**

- Drill

# **C. UNPACKING**

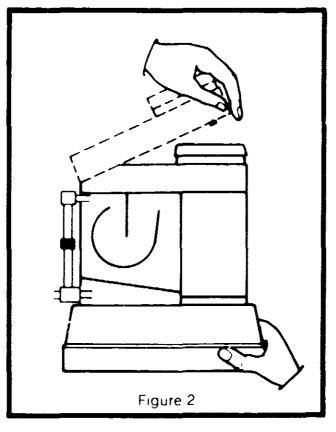


2. Lift Feeder Body off of Base Tank



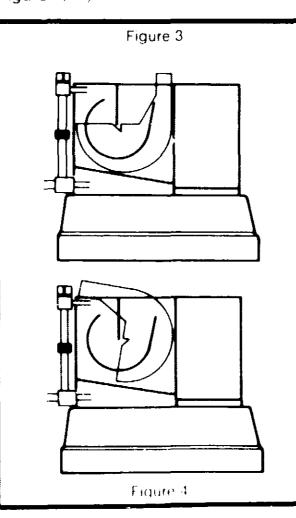
### To remove cushioning form Pellet Container:

1. Hold Base with one hand at Pellet Container end Remove feeder body cover by applying sharp upward pressure at Pellet Container end with other hand. (Figure 2.)



2. Remove Pellet Container from feeder and discard cardboard cushioning. Replace Pellet Container.

3. Rotate both Accumulator cardboard cushions toward Inflow Control Knob, then slide back toward Pellet Container as far as possible and remove upwards. (Figure 3, 4.)



4. Replace feeder body cover by seating Peilet Container end first, then apply firm pressure or a sharp stap to both sides of Feeder Body Cover to "snap fit

# **D. POSITIONING**

IMPORTANT: The Pulsar Pool Feeder must be positioned at or above pool water level.

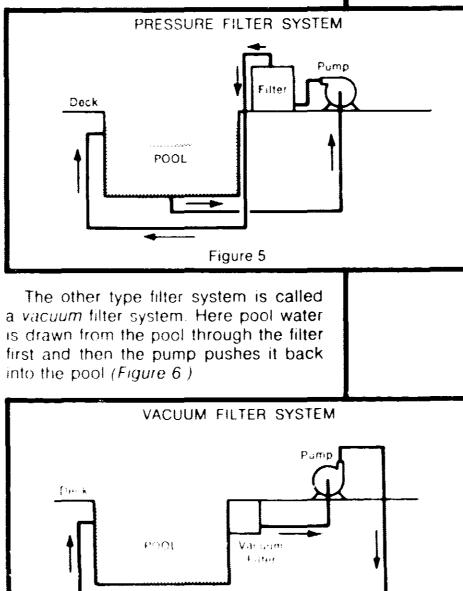
Select a position as close as possible to the filter pump in a location which is conveniently accessible but does not obstruct servicing the filter or pump. Placing the feeder on concrete-blocks or other supports, to raise it a foot or more above ground level, adds to convenience when retilling with pellets or adjusting feed rate

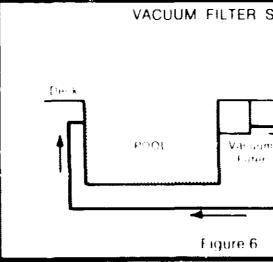
It is not essential that the feeder be perfectly level in order to operate satisfactorily, but the zero and lower chlorine feed rate settings are affected if the unit is much off-level.

## E. DETERMINING **TYPE OF FILTER** SYSTEM

Before installing the Olin Pulsar Pool Feeder System it is necessary to determine the type of pool filter system on your pool.

In some filter systems, water drawn from the pool goes through the pump first, and is then forced through the pool's filter and then passes back into the pool. This is a pressure filter system. (Figure 5.)





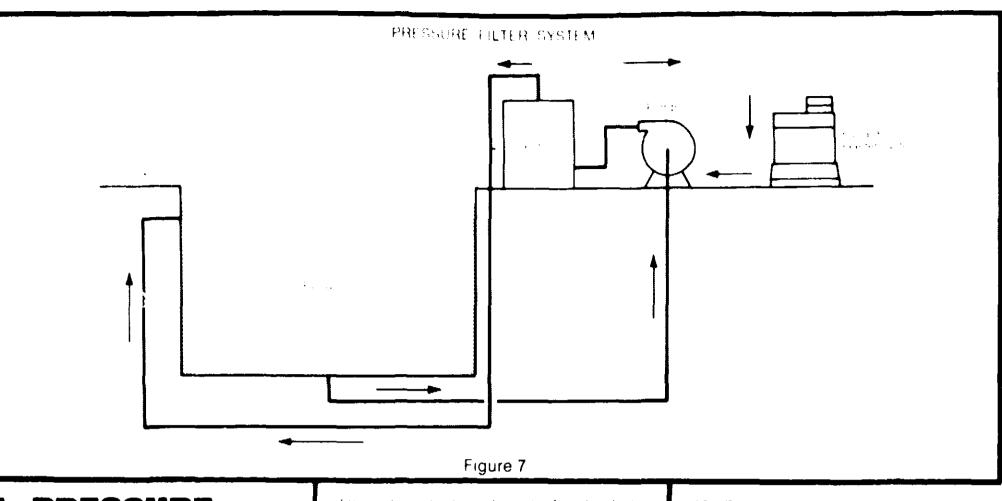


What System Do You Have? Pressure Filter System Vacuum Filter System Use Appropriate Set Of Connection Instructions. Page 4 Pressure Filter System Page 6 Vacuum Filter System

# F. TURN OFF FILTER PUMP

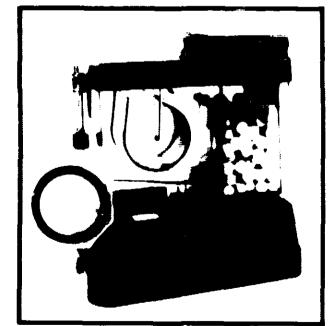
## **G. CLOSE VALVES BETWEEN FILTER** SYSTEM AND POOL (IF ANY)

## **2. CONNECTION** INSTRUCTIONS



### **A. PRESSURE FILTER SYSTEM** WATER INLET (POOL WATER) **CONNECTION**

The inlet water to the Olin Pulsar Pool Feeder System must be taken from a point in your pool's filter system after the water has gone through your pool's pump and filter, but before it returns to the pool or goes through a heater. In



the pressure filter system, pool water is drawn from the pool by the pump and forced through the filter and returned to the pool (Figure 7)

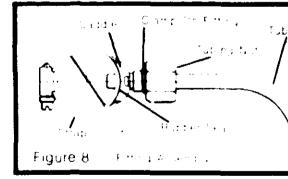
**1.** Select site for a 3a" hole on side (not top) of a straight run of pipe on the outlet side of filter (return to pool side of

filter). In selecting the site for the hole, consider direction tubing will point. It is best not to have clamp fitting (saddle) facing outward where it may project into the path of someone walking by

2. Drill 3/8" hole parallel to ground through one side of pipe (not both sides)

3. Clean hole Remove shavings and burrs.

4. Select one of two clamp-on fitting assemblies supplied with feeder and open clamp by unscrewing all the way 5. Position fitting directly over hole in pipe (Figure 8)



6. Insert small end of fitting into hole. making sure rubber seal is in place. arou if hore.

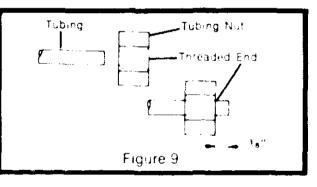
7. Close clamp and trahten fully with screwdriver

8. Take plastic turang supplied with feeder Purts one end if plastic toping as deeply as possible into clamp-onfitting.

9. Push Tubing Nut calready on tubing menurely onto clamp on titling and then Hund highlets an fittery and pollation

10. Run tubing to feeder and cut for connection to Inlet Fitting (Don't Cut Too Short)

11. Push (with twisting motion) one of two loose Tubing Nuts supplied with feeder onto cut end of tubing so that the threaded end of nut faces the loose

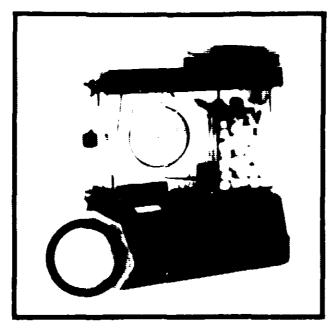


end of tubing. Push nut until at least 3/a" or more of tubing extends beyond threaded end of Tubing Nut. (Figure 9) 12. Insert loose end of tubing as deeply as possible into Water Inlet Fitting on pool feeder.

13. Push Tubing Nut securely onto Inlet Fitting Hand tighten as firmly as possible

## SOLUTION OUTLET CONNECTION

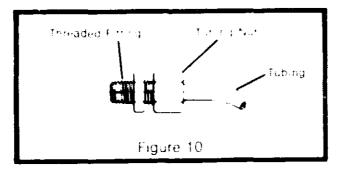
The hypochlorite solution from the Olin Pulsar Pool Feeder System must be returned to the Pool Edter System at a point before the water has passed through the pool 3 pump and filter, that is into the pump inlet line (see Figure 7.)



1. Check lower side of hair and lint trap before pump. Many hair and lint traps have a  $\frac{1}{4}$ " NPT plug in the lower side. There may also be a  $\frac{1}{4}$ " NPT plug in the bottom of the pump. Do Not use the plug in the bottom of the pump.

If there is a plug in the hair and lint trap, go to inst. 3; if not, skip to inst. 5.
 Remove plug with wrench or pliers.

4. Take one of two threaded fittings supplied with feeder. (Figure 10) Tetlon thread sealing tape applied to thread may improve the seal Screw smaller, tapered end of this fitting carefully into



hole in bottom of lint trap tightly enough to prevent air from leaking into filter system. Go to inst 12' (Skip inst. 5 through 11)

5. Select a site for a fail hole on the rade (not top) of a straight run of pipe on the inlet rade of the pump (line from pool to pump) in selecting site for hole consider direction tabing will point. It is the triat to have raiddle of saddle clamp titling facing outward where it might progret into the path of consider diversity.

6. Drill tail hole parallel to ground through one side of pipe (not both sides)

7. Clean hole Remove shavings and burrs

8. Take second clamp on fitting assembly supplied with feeder. Open clamp by unscrewing all the way

pipe. 10. Insert smail end of

**10.** Insert small end of fitting into hole, making sure rubber seal is in place around hole.

**11.** Close clamp and tighten fully with screwdriver Loose connection will allow air to enter filter system.

**12.** Take remainder of plastic tubing supplied with feeder. Push end of plastic tubing with tubing nut as deeply as possible into clamp on fitting or threaded fitting.

**13.** Push Tubing Nut (already on tubing) securely onto clamp-on threaded fitting. Hand tighten as firmly as possible. Loose fitting will allow air to enter filter system.

**14.** Run tubing to feeder and cut for connection to Solution Outlet Fitting in base of Feeder (DON'T CUT TOO SHORT)

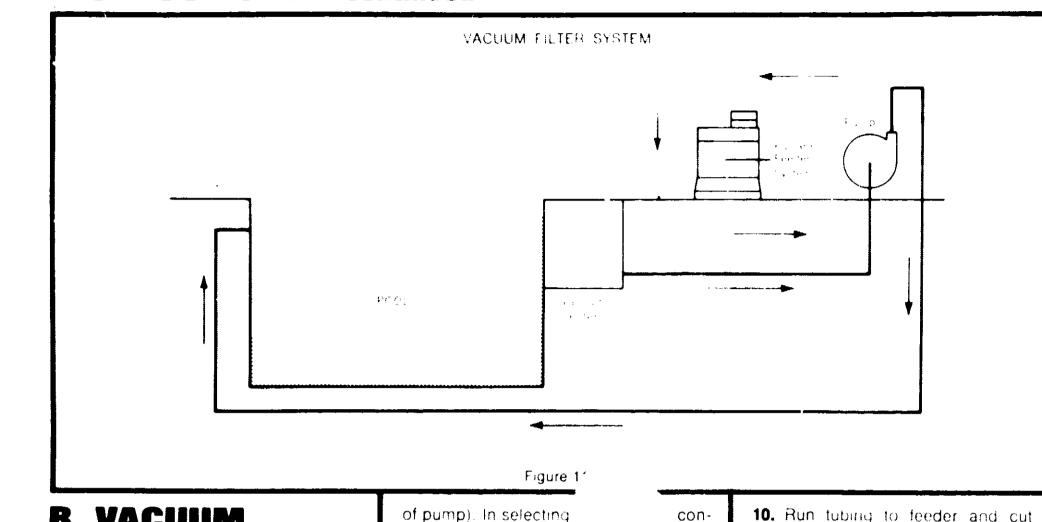
15. Push (with twisting motion) one of two loose Tubing Nuts supplied with feeder onto cut end of tubing so that the threaded end of nut faces the loose end of tubing. Push nut until at least 3/8" or more of tubing extends beyond threaded end of Tubing Nut.
16. Insert loose end of tubing as deeply as possible into Solution Outlet Fitting on pool feeder.

**17.** Push Tubing Nut securely onto Solution Outlet Fitting Hand tighten as firmiy as possible Loose fitting will allow air to enter filter system.

9. Position litting directly over hole in

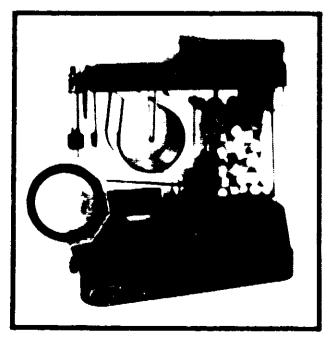
# **2. CONNECTION** INSTRUCTIONS

continued



## **B. VACUUM FILTER SYSTEM** WATER INLET (POOL WATER) CONNECTION

The inlet water to the Olin Pulsar Pool Feeder System must be taken from a point in your pool's filter system atter the water has gone through your pool's filter and pump, but before it returns to the pool or goes through a heater. In the vacuum filter system, pool water is taken from the pool and drawn through the filter by the pump and returned to the pool (Figure 11.)



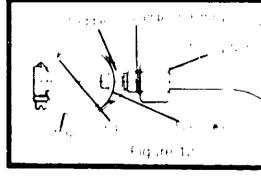
1. Select site for a "a" hole on side mot top) of a straight run of pipe on the out of side of pump (return to pool side

sider direction tubing will not to have clamp-on titting (saddle) facing outward where it may project into the path of someone walking by. 2. Drill 3/s" hole parallel to ground

through one side of pipe (not both sides).

3. Clean hole. Remove shavings and burrs.

4. Select one of two clamp-on fitting assemblies supplied with feeder and open clamp by unscrewing all the way. 5. Position fitting directly over hole in pipe. (Figure 12)



6. Insert small end of titling one bole. making sure rubber each is robaile around hole.

7. Close clamp and tighten tary with Screwdriver

8. Take plantic toting supplied with tender. Pullh one end of plantac trandall deeply as provible into mampion titici

9. Fush Libing Nut (already on tubility) we survey out tool campo ours fattored cards there. chand to blene as firming an porcepted

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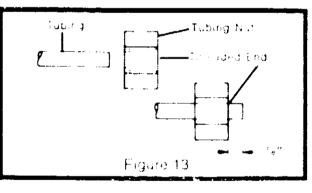
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con-.. It is best



10. Run tubing to feeder and cut for connection to Inlet Fitting. (Don't Cu-Too Short)

**11.** Push (with twisting motion) one or two loose Tubing Nuts supplied with feeder onto cut and of tubing so that the inreaded end of nut faces the loose enc



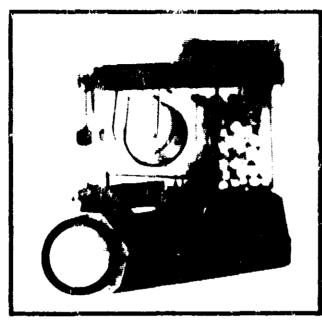
of tubing Push nut until at least 3\*" or more of tubing extends beyond threade end of Tubing Nut.

12. Insert locke end of tubing as deep 1. as possible into Water Inlet Fitting or pravi feedor.

13. Push Tubing Nut securely onto inter-Fitting, Harst tighten as firmly as posible

## SOLUTION OUTLET CONNECTION

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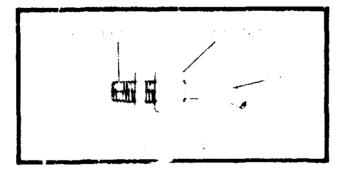


1. Check over side of harr and lint tradibefore pump. Many hair and an' traps have a 14. NPT plug in the lower bide. There due, also be a 14. TIPT plug in the billion of the pump. Do Not use the billion the bottom of the pump.

2. If there is a plug in the nation to entitle trap, go to cast 3 of high or to entit 5.

 Remove muy with wrench or pliers.
 Lake the two torgated titing a supplied with feeder. (Figure 14) (atton

theread leads to table appreciate thread may must writtee small Screw matter tables there to the small Screw matter bettom to this to the expected preversion that each to the thereby test. Controles to the pressions 5 to 11



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5. Solve a second and a second strain a second strain and the s

tector the have saddle of laddle clamp tensor facing outward where it might propertants the path of someone waking by

6. Dense Nett the Ben proceeders to operand the sector conversion to prove on it protects is not.

7. Presare the second state of a press state of the second state.

8. Take second componishing eigentes completed with feeder. Operationapility and crick of all the way.
9. Position offering clamp, date by over how repeption.

**10.** Interf small end of string into hole, making some rubber heat is in place around hole.

**11.** Close clamp and tighten fully with screwdriver. Loose conection will allow air to enter filter system.

12. Take remainder of plastic tubing supplied with feeder. Push end of plastic tubing with tubing nut as deeply as possible into clamp-on fitting or threaded fitting.

**13.** Push Tubing Nut (already on tubing) securely onto clamp on or thread fitting Hand tighten as firmly as possible Loose connection will allow air to enter titter system.

**14.** Run tubinal to tender and out for competition to Solution Gutlet Fitting in base of feeder (Don't Cut Too Short)

**15.** Post ewith twister a motion, one if two roose "uping Nats supplied with treader color out end of tubing so that the threaded end of nut faces the loose end of tubing. Push nut until at least 3%" or more of tubing extends beyond to end of tubing Nut.

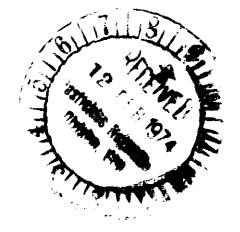
**16.** Insection as element of tubing as deeply as possible interface of other Outlet Pitting on poor feeder.

17. Parts Full eq Not recordly entor So antone (autors Entrop Hand Labler as furgives to enter the exconnection was above an together table system.

## **3. PRE-START-UP** CHECKLIST

- Is unit positioned above pool (water) level?
- Is unit reasonably level?
- Is accumulature) in mulded soft in -body(7) Does it rotate freely?
- Are all four cardboard cushioning. pieces removed from feeder?
- ↓ Is float valve t3: in base tankel to on. prvots(20) and free to blove up and -down<sup>o</sup>
- Is deflector(2) in place at end of inlet (1ube(21)?
- Are filter and hair and lint trap clean?
- Is pool water balanced? It not water should be balanced before unit is operated

Note: Unbalanced pool water is either corrosive or scale forming. It shortens the life and reduces the efficiency of heaters, filters, and pumps, Keeping pH between 72 and 74 for a few days usually restores water to a balanced condition. If you are in doubt about the condition of your pool water, take a water sample to a pool dealer for analysis



# 4. START-UP

A General (Refer to Diagram of Pool Feeder)

1. Remove Ed and cover(5), and chemlical containerth, from feeder. 2. Other is the between it from electric and poor

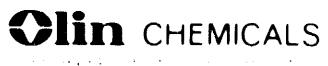
3. Turn a jung sprace table sary) Check chickness due in pilo with a relable test kit

4. Fel chemical in stanes with C. e. P. F. war Pellets, Use only Poiser Pellets in the Over Pulsar Pool feeder. Open inflow control value(19) by turning inflow control knob(1) counter mockwise. Water should begin to flow from inlet tube(21). into accumulator

5. The chlorine feed rate is controlled by a combination of two feeder pettings. a. Chlorine Control Dial(10): determines the amount of water per cycle that contacts the feeder chemical b. Indicator Ball Setting: the indicator bali(18) shows the rate of water inflow into the feeder and therefore, the number of times (cycles) per hour the accumulator will fill and empty The correct setting of these two controllers for your pool is the combination that maintains a chlorine residual in your pool of between 0.6 and 1.0 parts per million For pools conditioned with cyanutic acid at concentrations up to 50 ppm always maintal: the chlorine residual at 1.0 to 1.5 ppm as determined by a test kit. The chlorine requirement and, thus the setting necessary to maintain that residual are based on your pool conditions leg size bathing load.

temperature, amount of sunlight etc.) 6. Adjust the inflow control knob to that the indicator ball is at the top mark on the indicator tube. Initially set the chlorine control dial to five(5)

7. After 24 hours check the chlorine residual if between 0.6 and 1.0 ppm. leave the chlorine control dial setting as is, if above 1.0 ppm, decrease the leed. rate by setting the chlorine control dial to a lower number, if below 0.6 ppm in created the feed rate by setting the conthe draft to a tother number. The pole istrait but be goed until the 0.6 to 1.0. - facts choose the dual of Helisbort -



8. Continue to rector chlorine residual and to adjust the chorine control dial setting until the rehidual remains be tween 0.6 and 1.0 ppm. Allow sufficient time (e.g. lone day) after changing the chlorine control dial setting for the a highnerine sual reading to readiust. In general of schedules the church the churche reader at the latter title each day THE PLACE FRAMEWORK

9. Aways maintain pH between 7.2 and 76

10. Remember for prost conditioned with cyanure acid at concentrations up to 50 ppm, always maintain the chlorine residual at 1.0 to 1.5 ppm as determined by a test kit

11. Check all fittings for leaks. Tighten where necessary

12. If your pool s daily chlorine requirements is very low, it may be desirable to reladaust the indicator ball so that it is at the hash mark near the middle of the indicator tube. This adjustment should be made with the hair and lint trap clean. It will effectively reduce the water inflow and therefore, the number of cycles per hour and thus the amount of chlorine feed at each control dial setting

13. If algae develops, fill container with pellets, set indicator ball to top mark and chlorine control dial to ten(10) Continue to run filter until algae condition is controlled or until the chlorine residual is 5.0 ppm. Before entering pool, check ch'orine residual and if above 2.0 ppm. allow pool to stand (set chlorine control dial to zero) until residual drops to 20 ppm. Then monitor chlorine residual until chlorine levels are as indicated in instructions 7 through 10.

Note: Use only Okn Pulsar Pellets, Fire explosion or generation of toxic gases could result from contamination with other pool products or other foreign matenais

