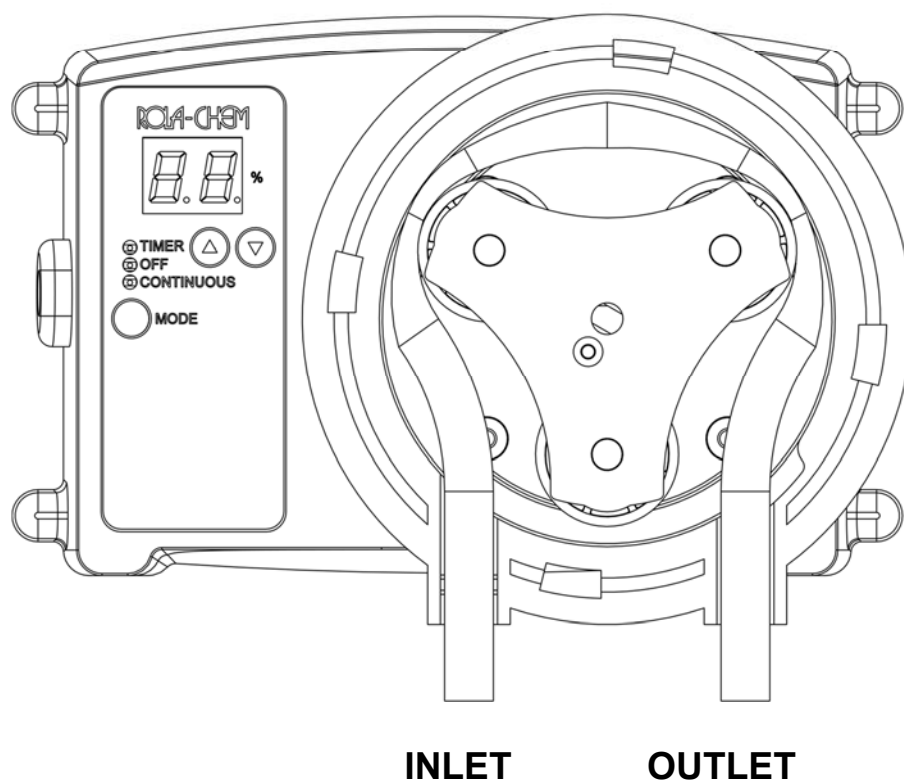




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**IMPORTANT SAFETY INSTRUCTIONS**  
**READ AND FOLLOW ALL INSTRUCTIONS**  
**SAVE THESE INSTRUCTIONS**

**1. SAFETY: When installing and using this electrical equipment, basic safety precautions should always be followed, including:**

**1.1 WARNING!** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

**1.2 WARNING!** Risk of electric shock.

Connect only to a grounding type receptacle protected by a ground-fault circuit interrupter (GFCI). Contact qualified electrician if you cannot verify that the receptacle is protected by a GFCI and that your installation meets local electrical codes, including grounding of water system components.

**1.3 WARNING!** Risk of electric shock.

Do not bury or modify the metering pump cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers, and other equipment.

**1.4 WARNING!** Risk of electric shock.

On cord and plug-connected units, replace a damaged cord immediately.

**1.5 WARNING!** Risk of electric shock.

Do not use extension cord to connect unit to electrical supply; provide a properly located outlet.

**1.6 WARNING!** Risk of electric shock.

Do not install within an outer enclosure or beneath the skirt of a hot tub or spa unless so marked. All instructions must be in accordance with appropriate electrical codes.

**1.7 WARNING!** Risk of electric shock/pinching/chemical exposure.

Remove power sources or lockout circuit prior to performing maintenance on metering pump. Pumps are usually timer controlled and can start at any time.

**1.8 WARNING!** Risk of Chemical Overdose/Exposure.

Removing power from circulating pump must also remove power from the chemical injection pump. Provide a properly located outlet controlled by the circulating pump circuit.

**1.9 WARNING!** Risk of Chemical Overdose/Exposure.

Use a device such as a flow switch to shut off power from the from the chemical injection pump in the event of pool pump or circulation failure.

It is not safe to automatically dispense chemicals into a circulating system that is not running.

**1.10 WARNING!** Risk of Chemical Overdose/Exposure.

Minimize amount of chemical on site that is available to dispense.

Size the feeder and container to pool/spa capacity.

Dilute chemical for small bodies of water.

**1.11 WARNING!** Risk of Chemical Exposure.

Depressurize the system prior to connecting or disconnecting the metering pump.

**1.12 CAUTION!** Wear protective clothing, gloves and safety glasses at all times when working on or near the metering pump.

**1.13 CAUTION!** Install the metering pump and chemical containers in a ventilated secured location. Protect children, pets, and property from chemical hazards. Containment and/or wash down capability must be in accordance with local regulations and chemical suppliers' instructions.

**1.14 CAUTION!** Read and follow all instructions supplied with the chemical being fed. User is responsible for determining the compatibility of the chemical with the metering pump. Consult supplier of chemical if use and handling instructions are not available.

**1.15 CAUTION!** This pump is for use with permanently installed pools and may also be used with hot tubs and spas. Do not use with storable pools. A permanently installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storage **pool** is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.

**1.16 CAUTION!** Service tubing regularly, e.g. when refilling chemical container. See OPERATION and MAINTENANCE sections for details.

## 2. Specifications

**Power:** 120 volt AC (corded) or 240 volt AC (conduit), 50/60 HZ, 2.5 amp (max.)

**Pressure / suction:** 30 psi max. dispense line pressure. RC307 maximum dispense line pressure is 25 psi. 18-foot max. inlet suction lift.

**Feed Capacity:** Estimated maximum gallons per day (GPD) in Continuous mode.

| RC301 | RC303 | RC305 | RC307 |
|-------|-------|-------|-------|
| 0.9   | 12.0  | 38.0  | 77.0  |

To calculate estimated feed rate for Timer settings, multiply the Continuous mode rating from above by the percentage setting or see table on next page.

Example for an RC305 set to 50%: 38 gallons per day x 50% = 19 GPD.

Available TIMER settings include increments of 1% from 1 – 10%, increments of 5% from 10 – 95% and 99%.

Capacity in this table is intended as a guide. Actual output may vary based on actual environment.

| Conversion from Legacy Pro Series Knob Setting to Percent Setting |                 |
|-------------------------------------------------------------------|-----------------|
| Legacy Pro Series Knob Setting                                    | Percent Setting |
| Lo                                                                | 1               |
| 2                                                                 | 15              |
| 3                                                                 | 35              |
| 4                                                                 | 50              |
| 5                                                                 | 70              |
| 6                                                                 | 80              |
| Hi                                                                | 99              |

## 2. Specifications - continued

Estimated feed rates at given Timer settings

– Gallons per Day (GPD)

| Setting (%) | On Time    | Off Time | RC301 | RC303 | RC305 | RC307 |
|-------------|------------|----------|-------|-------|-------|-------|
| 1           | 5.4 SEC    | 8.9 MIN  | 0.01  | 0.12  | 0.38  | 0.77  |
| 2           | 10.8 SEC   | 8.8 MIN  | 0.02  | 0.24  | 0.76  | 1.54  |
| 3           | 16.2 SEC   | 8.7 MIN  | 0.03  | 0.36  | 1.14  | 2.31  |
| 4           | 21.6 SEC   | 8.6 MIN  | 0.04  | 0.48  | 1.52  | 3.08  |
| 5           | 27.0 SEC   | 8.6 MIN  | 0.05  | 0.60  | 1.90  | 3.85  |
| 6           | 32.4 SEC   | 8.5 MIN  | 0.05  | 0.72  | 2.28  | 4.62  |
| 7           | 37.8 SEC   | 8.4 MIN  | 0.06  | 0.84  | 2.66  | 5.39  |
| 8           | 43.2 SEC   | 8.3 MIN  | 0.07  | 0.96  | 3.04  | 6.16  |
| 9           | 48.6 SEC   | 8.2 MIN  | 0.08  | 1.08  | 3.42  | 6.93  |
| 10          | 54.0 SEC   | 8.1 MIN  | 0.09  | 1.20  | 3.80  | 7.70  |
| 15          | 1.4 MIN    | 7.7 MIN  | 0.14  | 1.80  | 5.70  | 11.55 |
| 20          | 1.8 MIN    | 7.2 MIN  | 0.18  | 2.40  | 7.60  | 15.40 |
| 25          | 2.3 MIN    | 6.8 MIN  | 0.23  | 3.00  | 9.50  | 19.25 |
| 30          | 2.7 MIN    | 6.3 MIN  | 0.27  | 3.60  | 11.40 | 23.10 |
| 35          | 3.2 MIN    | 5.9 MIN  | 0.32  | 4.20  | 13.30 | 26.95 |
| 40          | 3.6 MIN    | 5.4 MIN  | 0.36  | 4.80  | 15.20 | 30.80 |
| 45          | 4.1 MIN    | 5.0 MIN  | 0.41  | 5.40  | 17.10 | 34.65 |
| 50          | 4.5 MIN    | 4.5 MIN  | 0.45  | 6.00  | 19.00 | 38.50 |
| 55          | 5.0 MIN    | 4.1 MIN  | 0.50  | 6.60  | 20.90 | 42.35 |
| 60          | 5.4 MIN    | 3.6 MIN  | 0.54  | 7.20  | 22.80 | 46.20 |
| 65          | 5.9 MIN    | 3.2 MIN  | 0.59  | 7.80  | 24.70 | 50.05 |
| 70          | 6.3 MIN    | 2.7 MIN  | 0.63  | 8.40  | 26.60 | 53.90 |
| 75          | 6.8 MIN    | 2.3 MIN  | 0.68  | 9.00  | 28.50 | 57.75 |
| 80          | 7.2 MIN    | 1.8 MIN  | 0.72  | 9.60  | 30.40 | 61.60 |
| 85          | 7.7 MIN    | 1.4 MIN  | 0.77  | 10.20 | 32.30 | 65.45 |
| 90          | 8.1 MIN    | 54.0 SEC | 0.81  | 10.80 | 34.20 | 69.30 |
| 95          | 8.6 MIN    | 27.0 SEC | 0.86  | 11.40 | 36.10 | 73.15 |
| 99          | 8.9 MIN    | 5.4 SEC  | 0.89  | 11.88 | 37.62 | 76.23 |
| On          | Continuous |          | 0.90  | 12.00 | 38.00 | 77.00 |

### 3. Installation

Tools required – Phillips screwdriver & adjustable wrench,  
23/32" drill & 1/2" pipe tap (NPT) or 7/16" drill & 1/4" pipe tap (NPT)

#### 3.1 Install the ROLA-CHEM pump in an area protected from natural elements (sun, rain, freezing, etc.).

Environmental effects may increase required service and maintenance.

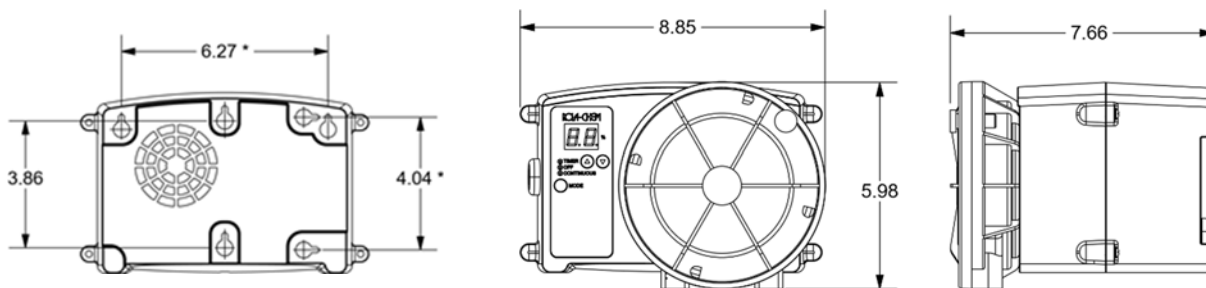
The inlet side of the pump must be above the incoming liquid and the chemical container.

Flooded suction is not required or recommended.

Ensure that the tube can be routed without allowing it to kink.

Do not install directly above the chemical container or other equipment that can be damaged by chemicals. Wall mounting key slots are provided on the rear of the pump enclosure (For #10 screws, 6-1/4" apart for horizontal mount, 4-1/16" for vertical mount and 3-7/8" for two-hole center mount).

Comply with local health codes. Cross connections must not allow undesired chemical treatment.



#### MOUNTING HOLES

\*SAME AS LEGACY PRO-SERIES

#### 3.2 For chlorine pumps, undiluted swimming pool grade 15% maximum sodium hypochlorite may be used. For acid pumps, 32% maximum hydrochloric acid may be used. Black Norprene Pinch Tube is included for use with hydrochloric acid. See sizing for dilution.

#### 3.3 Connect the injection fitting into the line to be treated. This should be after the heater. Use pipe tape to seal the pipe threads. If two chemicals are being injected and no controller is being used to prevent chemical mixing, space the injection points at least one foot apart to prevent mixing. Do not exceed pressure / suction specifications.

A check valve may be used at the point of injection to prevent backflow, then the tubing assembly can be disconnected at its connection to the check valve and it will not be necessary to plug the injection fitting hole.

For installation where pressure is greater than 20 psi, use a check valve as the injection fitting or in-line before injection fitting. One 3/8 barbed check valve and one 3/8 barbed inlet x 1/4 NPT (American National Standard Taper Pipe Thread) outlet check valve are included with standard pumps. Use tubing clamp over tube on barbed ends of fitting on outlet side of pump.

For low pressure applications, a brass injection fitting will fit a 1/2 NPT connector or a 1/2 NPT hole tapped into heavy gage pipe. Push the vinyl tube through the fitting until it hits

the bottom of the pipe, then pull it back about ¼ inch. This creates an outlet for chlorine away from the injector fitting and helps the injector fitting from becoming clogged.

For installations where a ¼ NPT injection port connection is already available, a ¼ NPT adapter with a tubing clamp is included in the literature kit.

**CAUTION!** Do not install injection fitting directly into copper lines (may cause corrosion and discoloring).

**3.4** Place the suction tubing in the chemical container with the weight lying on its side. This will keep the end of the suction tubing off the bottom to allow for sediment.

**3.5** Electrical hook-up must comply with Code, including safety devices. Voltage must be per the data plate.

**CAUTION!** Pump must be wired to prevent overdosing. Connect pump to turn off when circulating system is off. Connect pump power to a flow switch on the return piping (if circulation system stops, chemical pump must stop).

**CAUTION!** Pump must be turned off when backwashing filters.

## 4. Operation

- 4.1** Before placing the ROLA-CHEM pump in operation, lubricate the Pinch Tube with silicone lubricant (supplied in the literature kit) and install per Pinch Tube Assembly replacement instruction section 5.2. **NOTE:** Maintain lubrication on the Pinch Tube at all times. Intervals for applying lubrication vary with pump size, frequency of operation and pressures.

To access the Pinch Tube Assembly, remove the knob from the front of the pump housing. Rotate the housing cover counterclockwise and lift off the cover, or on the RC301 Models remove wing nuts and lift off the body half. Reverse steps to reassemble.

**CAUTION!** Remove power from pump when lubricating Pinch Tube. Do not remove Pinch Tube Assembly from pump housing while system is under pressure.

- 4.2** The Mode setting has TIMER, CONTINUOUS and OFF positions. For interrupting action, use the TIMER position and adjust the percent setting using the Up/Down buttons for the desired output. For use with a controller (and for continuous, non-stop chemical feeding) use the CONTINUOUS position.

**NOTE: When operated using an external controller, the Pump display will turn off when the Controller is not in a feed cycle and Pump settings cannot be adjusted.** In order to view and adjust the Pump settings: 1) temporarily set the external controller feed time to 30 seconds or more. 2) Start a feed cycle on external controller and set the pump mode to CONTINUOUS while feed cycle is still active. 3) Set intended feed time on external controller.

See Controller manual for details on adjusting feed time and initiating a feed cycle. Or set Pump mode by temporarily connecting the pump directly to a power source.

TIMER reduces the output by interrupting the chemical feeding for the selected portion of its nine-minute timing cycle (setting of 50% provides approximately 4.5 minutes on and 4.5 minutes off). The pump will feed at its maximum rate relative to operating conditions whenever it is feeding. Where an extremely accurate feeding setting is required, use a calibrated cylinder and a stopwatch to calculate the amount fed under actual operating conditions. Be sure to use full timer cycles when making the calculations. See (Section 2 Specifications) and (Section 6 Size Guide) for feed rate details.

CONTINUOUS runs the pump at maximum feed rate regardless of the timer setting.

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## 5. Maintenance

**5.1** Preventive maintenance is the best defense against possible leaks. Inspect tubing frequently as stated in safety instructions and lubricate Pinch Tube often to maintain a coating of silicone grease. Pinch Tube is designed for minimum service life of 500 hours pump run time. However Pinch Tube life is affected by many factors such as system back pressure, environmental temperature, and the chemical being pumped. Replace the Tube Assembly when found to be deteriorating or at the start of a new season.

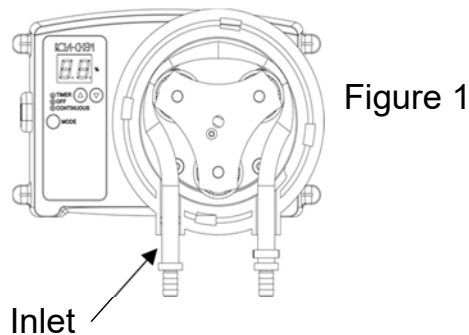
**CAUTION!** Both inlet and outlet connections may be under pressure. Depressurize the system prior to connecting or disconnecting the metering pump.

**WARNING!** Pump tubing may contain chemicals. Wear protective clothing, gloves and safety glasses at all times when working on or near the metering pump.

**WARNING!** Severe pinching of fingers can occur while installing Pinch Tube Assembly. Caution must be used to keep fingers away from rotating parts.

### 5.2 Pinch Tube Assembly replacement procedure

- 1) See OPERATION section 4.1 to access Pinch Tube Assembly.



- 2) Toggle the MODE Button intermittently between TIMER, OFF and CONTINUOUS settings to move Roller to position as shown in Figure 1 then switch OFF. Roller will rotate clockwise when MODE is set to CONTINUOUS or TIMER.
- 3) Pull lower left end of Pinch Tube Assembly out of inlet port (as noted in Figure 1) and continue to pull away from Roller. Toggle the MODE Button intermittently between TIMER, OFF and CONTINUOUS to move Roller. Keep fingers away from rotating parts. Tube will be released as Roller rotates.

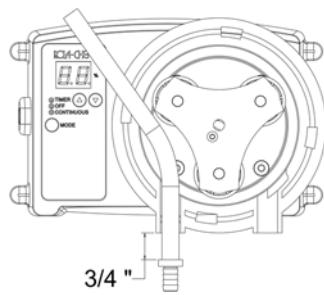


Figure 2

- 4) To install new Pinch Tube, Toggle the MODE Button intermittently between TIMER, OFF and CONTINUOUS positions to move Roller to position as shown in Figure 2 then switch OFF.
- 5) Lubricate Pinch Tube Assembly as noted in OPERATION section 4.1. Lay inlet end (without clamp) in inlet port on left with about  $\frac{3}{4}$ " of Pinch Tube protruding from housing. See Figure 2.

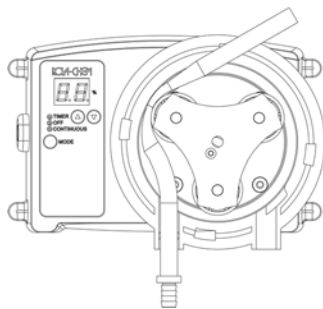


Figure 3

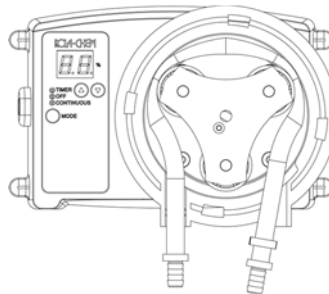


Figure 4

- 6) Toggle the MODE Button intermittently between TIMER, OFF and CONTINUOUS positions to rotate Roller assembly while guiding Pinch Tube Assembly into housing as shown in Figures 3 and 4 then switch OFF with roller in position as shown in Figure 4. Keep fingers away from rotating parts.

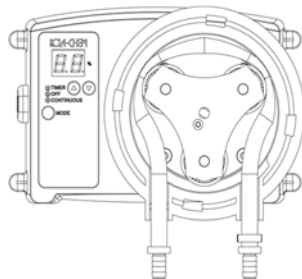


Figure 5

- 7) With MODE set to OFF, lay Pinch Tube Assembly in outlet port as shown in Figure 5.
- 8) Reassemble housing cover.

**5.3** Remove the Pinch Tube Assembly when the pump is not in use. Place the Pinch Tube Assembly in a clean poly bag when not in use. The pump shipping bag may be saved for this purpose. A Pinch Tube Assembly under light duty may last more than one season but replacing the Pinch Tube Assembly may prevent damaging the pump or an unscheduled maintenance call.

**5.4** Crystal buildup is seldom a problem with ROLA-CHEM pumps. However, it may be necessary to flush the pump tubing. Use plain water or a weak solution of muriatic acid (1/2-pint muriatic acid to one gallon of water).

**WARNING!** Always add acid to water. Never add water to acid. (e.g. fill container with one gallon of water then add 1/2 pint of acid) Wear protective clothing, gloves and safety glasses.

Additional preventative maintenance may be required in harsh environments. Strong chemicals and chemical vapors may cause corrosion of metal components. Inspect pumps for corrosion to exposed metal components.

## 6. Chemical Feed Pump Size Guide

**WARNING!** Failure to use proper size feeder may result in injury.

Pump size must be in compliance with local health codes. When in doubt about pump size, consult your supplier or ROLA-CHEM.

**NOTE:** ORP/pH controllers will not function properly with an over or under-sized feeder.

Sizing chart is only a guide and is based on ROLA-CHEM or equivalent pumps using 10.5% sodium hypochlorite (chlorine) or 20-32% hydrochloric acid (muriatic acid).

\*Consider diluting chemicals for small bodies of water. Required pump size may vary when

| Model | Minimum Feed Rate Gallons/24hr | Maximum Feed Rate Gallons/24hr | Recommended Volume of Spa Water to be Treated (Gallons) | Recommended Volume of Pool Water to be Treated (Gallons) | Maximum Volume of Water to be Treated per California Building Code Title 24 (Gallons) |
|-------|--------------------------------|--------------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------|
| RC301 | 0.01                           | 0.90                           | 500-2,500                                               | 2,500-5,000                                              | 3,000                                                                                 |
| RC303 | 0.12                           | 12                             | 2,500-25,000                                            | 5,000-65,000                                             | 40,000                                                                                |
| RC305 | 0.38                           | 38                             |                                                         | 65,000-200,000**                                         | 127,000                                                                               |
| RC307 | 0.77                           | 77                             |                                                         | 180,000-400,000**                                        | 257,000                                                                               |

diluting chemicals. Size pumps based on dilution ratio and available pump sizes. Typical dilution ratios for muriatic acid range from 4:1 to 9:1. When feeding acid diluted 9:1, the acid pump may be the same size as the chlorine pump.

**WARNING!** Always add acid to the water. Never add water to acid. (e.g. fill tank with four gallons of water then add one gallon of acid) Wear protective clothing, gloves, and safety glasses.

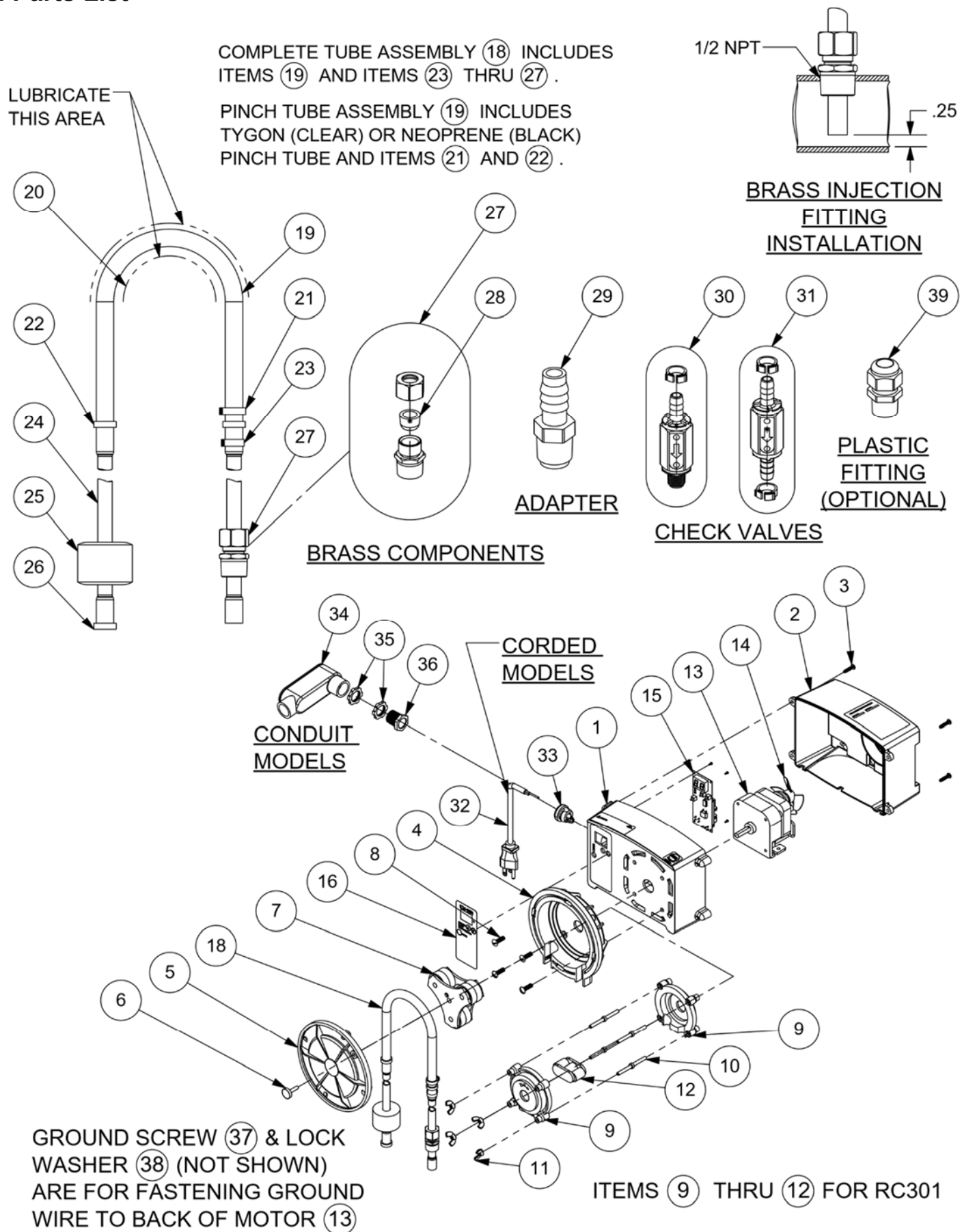
\*\*RC 305 pumps have been used on pools up to 240,000 gallons. RC 307 pumps have been used on pools up to 500,000 gallons. Multiple pumps may be used to meet higher demand requirements.

Heavily used bodies of water may require larger pumps. When using an ORP/pH controller instead of the timer that is included on the pump, larger pumps may be required in order to adjust chemistry more quickly.

## 7. Troubleshooting Pump Problems

| Issue                                                                                    | Cause                                            | Action                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pump does not operate, no noise, no motion.                                              | Power                                            | Check power source, switches, circuit box, ground fault tripping, etc.                                                                                                                                                      |
| Pump does not cycle on/off when set to TIMER or does not stop when set to OFF.           | Timer                                            | Replace Timer board.                                                                                                                                                                                                        |
| Pump motor turning but no movement in roller assembly.                                   | Motor gearbox                                    | Replace motor.                                                                                                                                                                                                              |
| Short Pinch Tube life.                                                                   | Worn or loose components                         | Replace worn roller assembly or gearbox assembly and secure pump housing and cover.                                                                                                                                         |
|                                                                                          | Lubrication                                      | Lubricate Pinch Tube more frequently.                                                                                                                                                                                       |
|                                                                                          | High System pressure                             | Check that system pressure is 30 psi max. (RC307 25 psi max.).                                                                                                                                                              |
|                                                                                          | Discoloration                                    | Tubing discoloration does not affect performance. Tubing can be replaced if desired.                                                                                                                                        |
| Pump rotating but not pumping fluid.                                                     | Pinch Tube Assembly                              | Replace Pinch Tube Assembly.                                                                                                                                                                                                |
|                                                                                          | Roller assembly                                  | Replace roller assembly.                                                                                                                                                                                                    |
|                                                                                          | Motor bearings                                   | Replace motor.                                                                                                                                                                                                              |
| Pump motor starts and stops with MODE set to CONTINUOUS.                                 | High temperatures                                | Check fan and replace if damaged. Improve ventilation to pump.                                                                                                                                                              |
|                                                                                          | Timer                                            | Replace Timer.                                                                                                                                                                                                              |
|                                                                                          | Power                                            | Check power source, switches, circuit box, ground fault tripping, etc.                                                                                                                                                      |
| Error Code 'Er' displayed.                                                               | Reset required                                   | Disconnect power to Pump, then while holding Up and Down buttons reconnect power and continue to hold both buttons for 5 seconds. If an error code continues to appear after resetting contact ROLA-CHEM service personnel. |
| Pump Display turns off when operated by an external controller that is not in feed mode. | Normal condition when controller feed turns off. | To turn Pump display on, see controller manual regarding activation of feed mode.                                                                                                                                           |

## 8. Parts List



| ITEM | PART No. | DESCRIPTION                                   | MODEL             |       |       |       |
|------|----------|-----------------------------------------------|-------------------|-------|-------|-------|
|      |          |                                               | RC301             | RC303 | RC305 | RC307 |
| 1    | 543832   | ENCLOSURE,FRONT                               | X                 | X     | X     | X     |
| 2    | 543833   | ENCLOSURE,BACK                                | X                 | X     | X     | X     |
| 3    | 8020183  | SCREW,#10X3/4,PHPHD,HI-LO                     | X                 | X     | X     | X     |
| 4    | 543842   | HEAD, BODY,3-ROLLER,GRAY                      |                   | X     | X     | X     |
| 5    | 543835   | HEAD, COVER,3-ROLLER,GRAY                     |                   | X     | X     | X     |
| 6    | 523408   | KNOB, LOCK ASSY                               |                   | X     | X     | X     |
| 7    | 523400   | ROLLER, TRINS-ASSY (3 ROLLER)                 |                   | X     | X     | X     |
| 8    | 525233   | SCREW 10-24 x 3/4 PTH SST                     |                   | X     | X     | X     |
| 9    | 543843   | BODY,HALF,2-ROLLER,GRAY                       | X                 |       |       |       |
| 10   | 525004   | BRASS STUD 10-32                              | X                 |       |       |       |
| 11   | 525140   | WING NUT 10-32                                | X                 |       |       |       |
| 12   | 523332   | ROLLER, 2 INCH H-BLOCK                        | X                 |       |       |       |
| 13   | 521058   | GEAR MOTOR, 1 RPM, 120V                       | 120 V             |       |       |       |
|      | 521094   | GEAR MOTOR, 1 RPM, 240V                       | 240 V             |       |       |       |
|      | 521805   | GEAR MOTOR, 4 RPM, 120V                       |                   | 120V  |       |       |
|      | 521806   | GEAR MOTOR, 4 RPM, 240V                       |                   | 240V  |       |       |
|      | 521316   | GEAR MOTOR, 16 RPM, 120V                      |                   |       | 120V  |       |
|      | 521317   | GEAR MOTOR, 16 RPM, 240V                      |                   |       | 240V  |       |
|      | 524756   | GEAR MOTOR, 30 RPM, 120V                      |                   |       |       | 120V  |
|      | 524755   | GEAR MOTOR, 30 RPM, 240V                      |                   |       |       | 240V  |
| 14   | 524752   | FAN, 2.5 INCH, WHITE, CW                      |                   |       | X     |       |
|      | 524227   | FAN, 2.5 INCH, BLACK, CCW                     | X                 | X     |       | X     |
| 15   | 543846   | TIMER,REPL,KIT,LED                            | X                 | X     | X     | X     |
| 16   | 524801   | OVERLAY,TIMER,LED/SWITCH                      | X                 | X     | X     | X     |
| 18   | 523252   | TUBE ASSY-TYGON/VINYL 8 INCH                  | NOTE A            | X     |       |       |
|      | 523118   | TUBE ASSY-TYGON/VINYL 13.5 INCH               | NOTE A            |       | X     | X     |
|      | 523414   | TUBE ASSY-NORPRENE/VINYL 8 INCH               | NOTE A            | X     |       |       |
|      | 523140   | TUBE ASSY-NORPRENE/VINYL 13.5 INCH            | NOTE A            |       | X     | X     |
| 19   | 523250   | TYGON PINCH TUBE ASSY-8 INCH                  | NOTE B            | X     |       |       |
|      | 523115   | TYGON PINCH TUBE ASSY-13.5 INCH               | NOTE B            |       | X     | X     |
|      | 523251   | NORPRENE PINCH TUBE ASSY-8 INCH               | NOTE B            | X     |       |       |
|      | 523114   | NORPRENE PINCH TUBE ASSY-13.5 INCH            | NOTE B            |       | X     | X     |
| 20   | 523102   | LUBRICANT, E-Z GLIDE, 3GRAM                   | X                 | X     | X     | X     |
| 21   | 525114   | CLAMP, HOSE #8 (LARGE)                        | X                 | X     | X     | X     |
| 22   | 520111   | FITTING, HOSE CONNECTOR, 3/8 BARB             | X                 | X     | X     | X     |
| 23   | 520110   | CLAMP, HOSE #6 (SMALL)                        | X                 | X     | X     | X     |
| 24   | 520120   | TUBING, VINYL .31 x .44 x 66 INCH             | X                 | X     | X     | X     |
|      | 520116   | TUBING, VINYL .31 x .44 x 100 FOOT (OPTIONAL) |                   |       |       |       |
| 25   | 523110   | WEIGHT, HOSE 7/16                             | X                 | X     | X     | X     |
| 26   | 520112   | RETAINER-HOSE WEIGHT                          | X                 | X     | X     | X     |
| 27   | 527158   | BRASS INJECTION FITTING, 1/2" MNPT            | X                 | X     | X     | X     |
| 28   | 525113   | SEAL, INJECTION FITTING (SPARE)               | X                 | X     | X     | X     |
| 29   | 520113   | ADAPTER, PP1/4MNPT x 3/8 BARB                 | X                 | X     | X     | X     |
| 30   | 521170   | CHECK VALVE, PVC, 3/8 BARB x 1/4 NPT          | X                 | X     | X     | X     |
| 31   | 521160   | CHECK VALVE, PVC, 3/8 x 3/8 BARB              | X                 | X     | X     | X     |
| 32   | 524155   | POWER CORD, 18-3, 120V                        | PUMP-CORDED,120 V |       |       |       |
|      | 524156   | POWER CORD, 18-3, 240V                        | PUMP-CORDED,240 V |       |       |       |
| 33   | 524090   | STRAIN RELIEF                                 | CORDED PUMPS      |       |       |       |
| 34   | 543837   | CONDUIT,BODY,LB,1/2"                          | CONDUIT MODELS    |       |       |       |
| 35   | 524135   | LOCK NUT, STEEL 1/2                           |                   |       |       |       |
| 36   | 524110   | NIPPLE, 1/2 x 1                               |                   |       |       |       |
| 37   | 525214   | GROUND SCREW #8, GREEN                        | X                 | X     | X     | X     |
| 38   | 8110030  | LOCK WASHER (GROUND SCREW)                    | X                 | X     | X     | X     |
| 39   | 527159   | FITTING, INJECTION-8M,NYLON (OPTIONAL)        |                   |       |       |       |

NOTE A: COMPLETE TUBE ASSEMBLY

ITEM 18 INCLUDES: PINCH TUBE ASSEMBLY (ITEM 19) AND ITEMS 23 THRU 27

NOTE B: PINCH TUBE ASSEMBLY

ITEM 19 INCLUDES: TYGON (OR NORPRENE) PINCH TUBE, CLAMP (ITEM 21) AND FITTING (ITEM 22)

## 9. Warranty and Service

### Limited Warranty:

ROLA-CHEM warrants the original purchaser that this unit is free from manufacturing defects in material and workmanship from the date of the original purchase for one (1) year.

If this unit fails within the one (1) year period, it will be repaired or replaced (ROLA-CHEM's option) at no charge, when returned to ROLA-CHEM with proof of purchase receipt. This warranty does not apply to any product damage caused by improper use, accident, misuse, improper line voltage, fire, flood, lightning, earthquake, other acts of nature, or if product was altered or opened by anyone other than qualified ROLA-CHEM personnel.

All expendable items (tubing, etc.) are not covered under this warranty.

ROLA-CHEM, under no circumstances, shall be liable for any consequential damages directly or indirectly caused by this unit. Please observe all rules and regulations required by state and local regulations, building codes, health codes, OSHA, etc.

**Service Procedure:** For operation assistance in the United States please call: (800) 549-4473 and ask for Customer Service, Monday through Friday 8:00 am-5:00 pm Central Time or email: [info@rola-chem.com](mailto:info@rola-chem.com). Have model number and serial number available.

ROLA-CHEM has specialized knowledge and equipment to test and diagnose your product. Contact our service personnel as noted above for assistance. If you are directed to ship the product to ROLA-CHEM and given an RGA#, please note RGA# on the package and ship freight pre-paid to:

ROLA-CHEM CORPORATION  
5858 Centerville Road  
St. Paul, MN 55127-6804

[www.rola-chem.com](http://www.rola-chem.com)