

# **PARALEVEL**<sup>TM</sup>

A U T O M A T I C   W A T E R   L E V E L E R

## PLUMBING MANUAL



004-027-8897-00  
REV033116  
US Patent Pending



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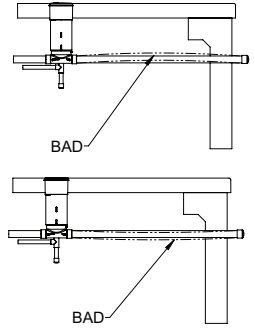
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# SYSTEM DESIGN

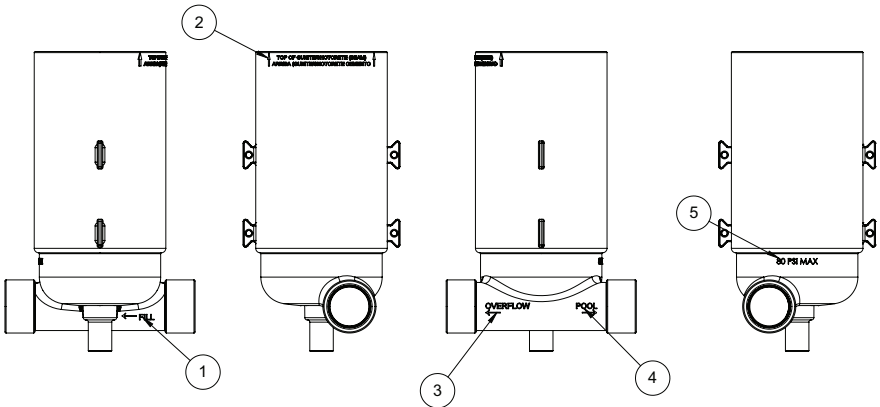
The Paralevel is designed to control the water level in a swimming pool or spa. The "Posi-Click" control makes adjusting the water level very easy. Four clicks (or one revolution) of the adjustment wheel changes the water level by 1/4". The Paralevel uses "Smart Sensing", eliminating rapid cycling of the device even when the pool is being used. The user can use 1 1/2" or 2" pipe for the balance line. The water line can be plumbed with 1/2" or 3/4" pipe. The Paralevel can also be plumbed with 2" pipe for overflow protection, offering the highest overflow protection in the industry.

## PARALEVEL LAYOUT & DESIGN CRITERIA

1. Paralevel should be level and plumb.
2. The Paralevel main housing is engraved with "Max High; Max Low; and Pool Level". The housing should be mounted so that the "Pool Level" line is at the expected water level.
3. Maximum water pressure is 80 psi.
4. The fill rate at 50 psi is 120 gph (2880 gallons per day).
5. **WARNING:** Balance line and overflow line must be plumbed straight. Failure to keep the run of pipe straight may cause an airlock.



## OVERVIEW



1. Fill port. Attach 1/2" in the ID or 3/4" on the O.D. using a 3/4" SxS fitting fill line from the water supply. Be sure to install a shut off valve and approved vacuum breaker per local codes between the water supply and the Paralevel.
2. Top of Gunite/shotcrete (Beam). This is the top of the pool shell assuming 3" above final water level.
3. Overflow. 2" PVC pipe should be used for overflow. A 2" line will make air locks less likely. This must be capped off if it isn't used.
4. Pool. This is the balance line into the pool. The fill water flows into the pool from this line. This may be plumbed with 1 1/2" or 2" PVC pipe
5. 80 psi Max. This is the maximum water pressure to be used with the Paralevel.

**NOTE:** MAKE ALL PLUMBING CONNECTIONS WITH PVC PIPE AND PVC PRIMER AND GLUE.

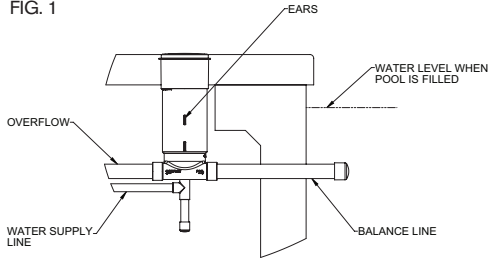
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# INSTALLATION METHODS

## Straight into pool

- A. Paralevel should be installed plumb and level with the top of the housing set even with the top of pool beam (standard 3" water clearance).
- B. Use the "ears" on the sides of the main housing to securely tie to form boards or stakes. (Fig. 1)
- C. During construction the Paralevel housing must be covered with plastic and/or tape to prevent debris from falling inside.

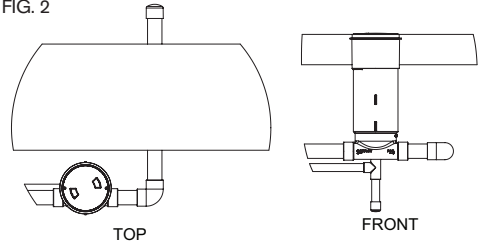
FIG. 1



## 90° to pool (Fig. 2)

Top View from above Front View from outside of pool

FIG. 2



## Distance from Pool

- A. The Paralevel can be placed adjacent to the side of the pool (Fig. 3), in the deck or at the equipment pad (Fig 4) as long as straight and level pipe runs can be maintained.
- B. There cannot be any place where the pipe rises and falls possibly creating an air lock. See Paralevel layout and design criteria.

FIG. 3

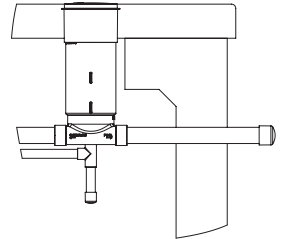
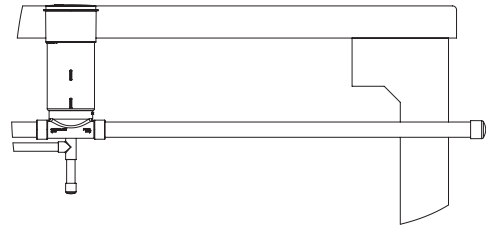


FIG. 4

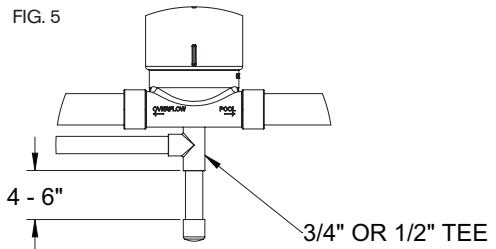


**CAUTION:** It is recommended that a separate shut off valve and approved vacuum breaker, per local codes, be plumbed in between the supply water source and the Paralevel housing.

Recommended "T" arrangement at fill port as a debris trap. (Fig. 5)

**Not to be used when winterization is required. Cannot be used in conjunction with winterization**

FIG. 5



# WATERLINE PRESSURE TEST

## 6. Water line pressure test only.

- Install pressure test cap with large AND small seals. (Fig. 7a and 7b)
- Tighten cap using removal tool (Fig 7c)

FIG. 7a

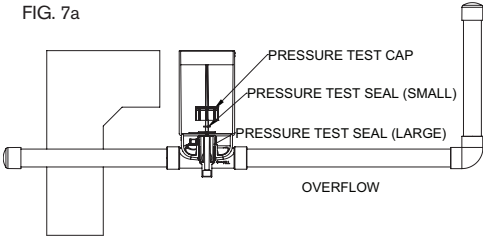


FIG. 7b

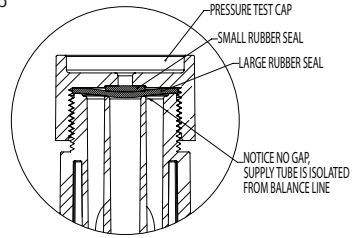
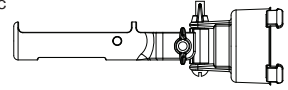


FIG. 7c



# OVERFLOW & BALANCE LINE PRESSURE TESTING

## 7. Balance line and overflow pressure test

- Install pressure cap with large seal only
- Tighten cap using removal tool (Fig. 8a and 8b)
- Install small pressure cap with O-ring using a 3/8" socket extension (not included).

FIG. 8a

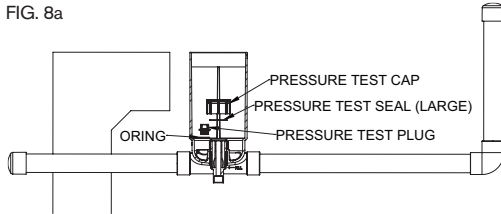
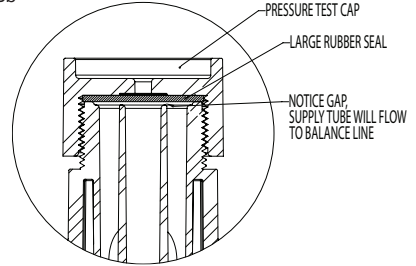


FIG. 8b

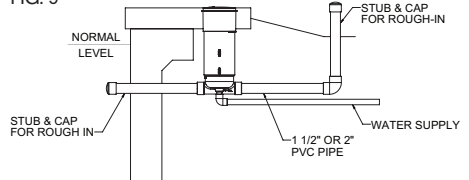


# OVERFLOW INSTALLATION INSTRUCTIONS

## 8. Basic Overflow/Balance line rough-in. (Fig. 9)

- 1 1/2" or 2" PVC schedule 40 pipe should be used
- Overflow can be set as close to or as far away from pool as necessary as long as straight and level lines can be maintained.
- Pool water from overflow must be disposed of in accordance with state and local codes.
- Can be plumbed into a drain sump
- Can be plumbed into a deck drainage system
- Must be capped off if not used.

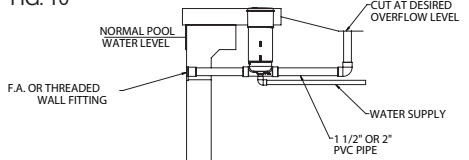
FIG. 9



## 9. Overflow Installation Method 1. (Fig. 10)

- Simplest installation method.
- Cut pipe at desired overflow level.
- This method shouldn't be used in areas where pool is winterized.

FIG. 10



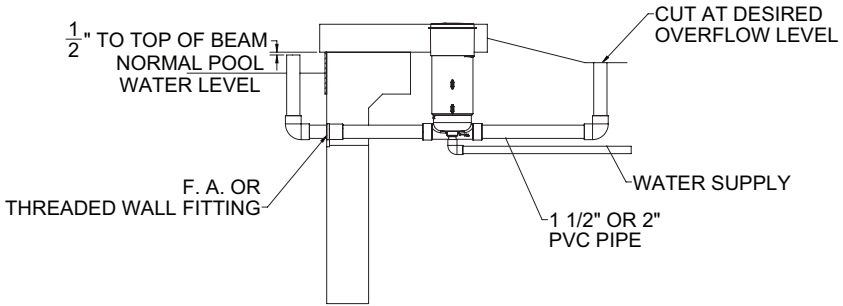
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## PARALEVEL OVERFLOW SET LEVEL

### Steps to Ensure Overflow is Set at Proper Level

These instructions work with the deck installed or not. If deck is installed the overflow connection must be made outside the deck.

1. Cut off the balance line rough plumbing stub inside the pool.
2. Install a female adapter or threaded wall fitting for final finish. Alternately if a FA is not used or this step is performed in advance of final finish prep; the balance line can be cut long. Skip to step 4.
3. Thread a pipe nipple into the fitting.
4. Attach a 90 degree elbow and a standpipe to the threaded fitting.
5. Measure and cut the standpipe to the desired overflow level (example 1 1/2" below the top of beam a 1 1/2" pipe will fit below the deck. This will allow the pool to overflow approximately 1 1/2" before spilling out the overflow pipe. If using 2" pipe drop to 2" below beam which will allow the pool to over fill 1" before spilling.)
6. Cut the standpipe on the exterior of the pool within a few inches above the desired spill level.
7. Fill the pipe with water and allow it to settle level to the temporary standpipe inside the pool.
8. Cut the exterior stub to match the level of the water in the pipe.
9. Remove the temporary standpipe on the interior of the pool by turning the threaded pipe out of the fitting.
10. Install one of the connections to waste shown in method 1 thru 4 on page 3 in the installation manual.



SETTING OVERFLOW

## WATER LEVEL PRESET PROCEDURES

**This method can also be used to preset the float leveler if the pool is not full of water**

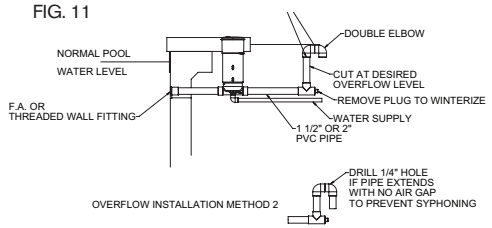
1. Turn on the water supply and flush the feed line to the Paralevel.
2. After the overflow is set cut the standpipe on the interior of the pool even with the desired water level in the finished pool.
3. Install the Paralevel float assembly per the instructions in the manual.
4. Turn on water supply.
5. Set the water level to shut off when the canister fills to the top of the standpipe.
6. Turn off the water supply.
7. When the pool is complete fill with water to almost full, remove the hose and allow the Paralevel to complete the fill to the preset mark. This will eliminate the need to watch the pool closely so it won't overflow on initial fill and can help ensure the pool will be full when startup is scheduled.

# OVERFLOW INSTALLATION INSTRUCTIONS

Recommended for areas where pool is winterized.

## Overflow Installation Method 2. (Fig. 11)

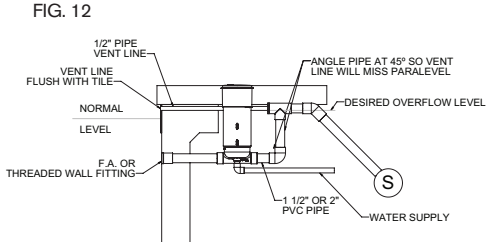
- Cut pipe at desired overflow level.
- Add double 90° ells to guide overflow into a drain sump.
- Do not glue ells to allow for future overflow adjustment.
- There must be an air gap between end of overflow pipe and drain sump to prevent siphoning.
- Drill 1/4" hole in top or side of pipe as shown if pipe extends into drain sump without an air gap.



**WARNING: IF PIPE EXTENDS INTO DRAIN WITH NO VENTING, SIPHONING WILL OCCUR.**

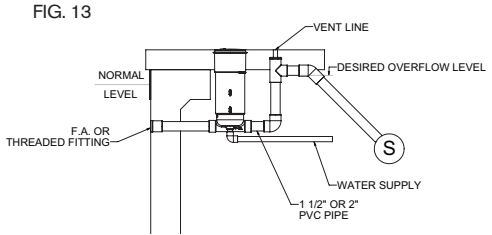
## Overflow Installation Method 3. (Fig. 12)

- Vent line is flush with tile.
- Cut pipe at desired overflow level.
- Can be installed under the deck.



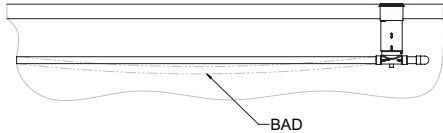
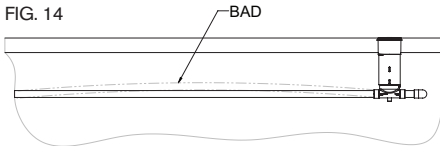
## Overflow Installation Method 4. (Fig. 13)

- Vent line goes up through deck.
- Cut pipe at desired overflow level.
- Can be installed under the deck.



**WARNING!** Pipe must be straight

- There cannot be any place where the pipe rises and falls possibly creating an air lock. (Fig. 14)



# DECK INSTALLATIONS

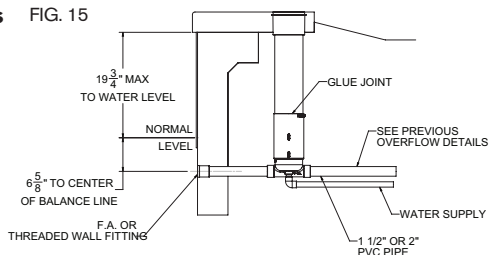
**WARNING!** Before pouring deck make sure the Paralevel main housing has not shifted during construction

- Minimum deck thickness is 2 1/8". Deck thickness over 5" may require an extension kit

# NEGATIVE EDGE, BASIN OR RAISED DECK INSTALLATION

## Negative edge, basin or raised deck installations with extension kit. (Fig. 15)

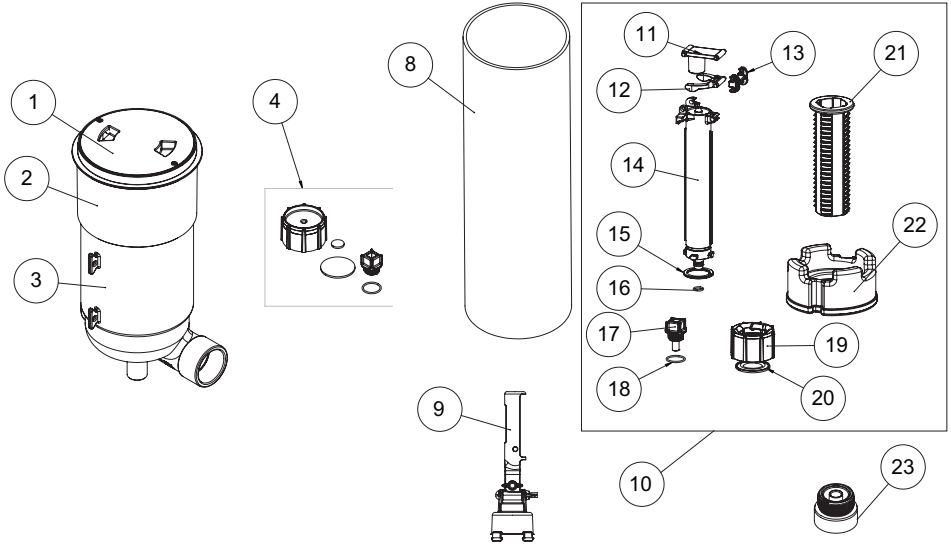
- If required an extension kit (005-252-1541-00) can be purchased separately.
- The extension should be glued in place using PVC primer and gray PVC glue
- Use 6 5/8" from normal water level to the center of the balance line.
- A maximum of 19 3/4" is allowed from the top of beam to the normal water level.



For technical assistance call 1.800.621.5886 or contact your regional representative

# PARALEVEL B PART NUMBERS

004-760-2903-XX



Item	Part Number	Description
1	005-760-2901-XX	LID
2	005-760-2915-XX	DECK RING
3		HOUSING
4	005-760-2911-00	WINTERIZATION/PRESSURE TEST KIT
*		1 1/2 NPT CAP
*		MAIN SEAL
*		CAP SEAL
*		SEAL PLUG
*		O-RING 2-020 EP70
8	005-252-1541-00**	EXTENSION KIT
9	004-627-5452-00**	TOOL
10	004-760-2929-00	START UP KIT B
11	*	TOP LEVER
12	*	LOWER LEVER
13	*	LINK LEVER
14	*	RISER TUBE
15	*	SNAP RING
16	*	O RING 2-011 VITON DUR 75
17	*	FLOW PLUG
18	*	O RING 2-020 EP70
19	*	RETAINER NUT
20	*	RETAINER RING
21	*	ADJUSTER SLEEVE
22	*	FLOAT BODY
23	004-762-2930-00**	EXTENSION 1"

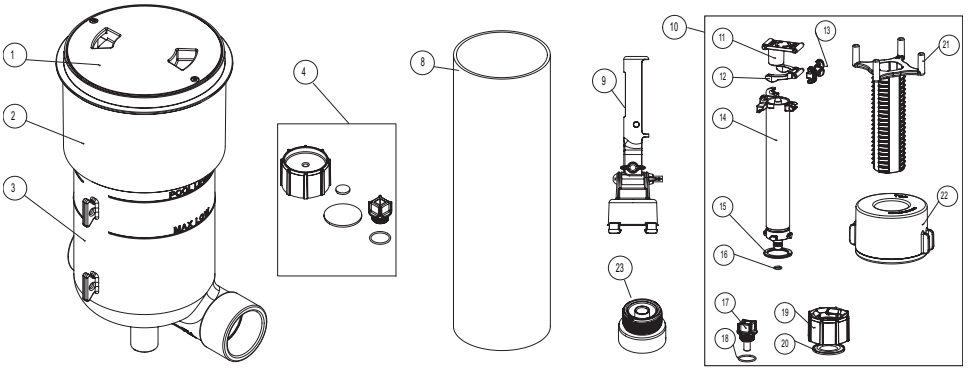
\* Parts are not available separately

\*\* not part of Paralevel order separately

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# PARALEVEL A PART NUMBERS

004-760-2900-XX



Item	Part Number	Description
1	005-760-2901-XX	LID
2		DECK RING
3		HOUSING
4	005-760-2911-00	WINTERIZATION/PRESSURE TEST KIT
*		1 1/2 NPT CAP
*		MAIN SEAL
*		CAP SEAL
*		SEAL PLUG
*		O-RING 2-020 EP70
8	005-252-1541-00**	EXTENSION KIT
9	004-627-5452-00**	TOOL
10	004-760-2919-00	START UP KIT
11	*	TOP LEVER
12	*	LOWER LEVER
13	*	LINK LEVER
14	*	RISER TUBE
15	*	SNAP RING
16	*	O RING 2-011 VITON DUR 75
17	*	FLOW PLUG
18	*	O RING 2-020 EP70
19	*	RETAINER NUT
20	*	RETAINER RING
21	*	ADJUSTER SLEEVE
22	*	FLOAT BODY
23	004-762-2930-00**	EXTENSION 1"

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