

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

**! WARNING**

Before installing this product, read and follow all warning notices and instructions accompanying this filter. Failure to follow safety warnings and instructions can result in severe injury, death, or property damage. Call 818-701-6200 for additional free copies of this manual.

**Important Notice**

Attention Installer:

This manual contains important information about the installation, operation and safe usage of this product. This information should be given to the owner/operator of this equipment.

**! WARNING**

Risk of electrical shock or electrocution. Position the filter and Automatic Air Relief Safety Valve to safely direct water drainage and purged air or water. Water discharged from an improperly positioned filter or valve can create an electrical hazard that may cause severe personal injury, as well as property damages.





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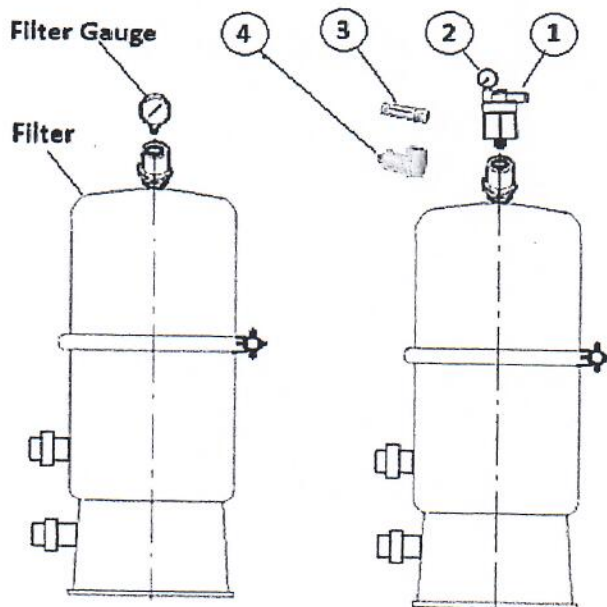
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1.0 PARTS LIST (See figure 1)

Item #	Name	PIN	Qty	Picture
1	Valve	AR300	1	
2	Gauge-Pressure	G20	1	
3	Nipple	N10	1	
4	Elbow	E10	1	
5	Owner's Manual	MAN10	1	N/A



## 2.0 INTRODUCTION

- 2.1 This product is an automatic air relief safety valve. It will automatically remove air from the filter tank each time the system is turned on if serviced and maintained as directed in these instructions.
- 2.2 With each start of the filtration system air will be purged from the filter tank.
- 2.3 As a result of purging air from the filtration system a small amount of water will be expelled from the automatic air relief safety valve each time the system starts. This may leave water spots and debris from the filter tank on the outside of the filter tank and on the ground. A hose that attaches to the outlet port of the automatic air relief safety valve to direct water and debris away from the filter tank can be purchased separately. See parts list for part number.
- 2.4 This product is an added layer of protection against the potential for a violent separation of the pool filter's two halves that could lead to serious injury including death. Most filter separations occur due to improper tightening of the filter clamp.
- 2.5 The automatic air relief safety valve is to be attached to swimming pool, wading pool, spa and hot tub filters in place of any existing manual air relief valve and filter gauge.
- 2.6 The valve is rated for a maximum working pressure of 50psi. **Do not install this valve on systems that operate at a higher pressure than 50psi.**

## 3.0 MATERIALS AND SPECIAL TOOLS

- 3.1 None Required

## 4.0 INSTALLATION (See figure 1)

- 4.1 Depending on the type of filter being upgraded, it may require removing the manual air relief valve, pressure gauge or both.  
*For filters that the filter gauge is separate from the manual air relief valve:*
- 4.2 Remove the Filter Gauge.
- 4.3 Install the Valve item #1 in place of the removed gauge.
  - a. This may require the use of a nipple (item #3)
  - b. Be sure to use three wraps of Teflon tape on each end of the nipple to seal the nipple threads
- 4.4 Hand-tighten the valve.
- 4.5 Install the **Pressure Gauge** item #2. If preferred, install the removed gauge instead of the provided gauge item #2.
  - a. Teflon tape will need to be re-applied to the threads on the gauge.
- For filters that the filter gauge is an integral part of the manual air relief valve:**
- 4.6 Remove the manual air relief valve and Filter Gauge.
- 4.7 Install the **Valve** item #1 in place of the removed manual air relief valve and gauge.
  - a. This may require the use of a nipple (item #3)
  - b. Be sure to use three wraps of Teflon tape on each end of the nipple to seal the nipple threads
- 4.8 Hand-tighten the valve.
- 4.9 Install the **Pressure Gauge** item #2. If preferred, install the removed gauge instead of the provided gauge item #2.
- 4.10 Teflon tape will need to be re-applied to the threads on the gauge.

## ! WARNING

THIS FILTER OPERATES UNDER PRESSURE. WHEN ANY PART OF THE CIRCULATION SYSTEM IS SERVICED AIR CAN ENTER THE SYSTEM AND BECOME PRESSURIZED. PRESSURIZED AIR CAN CAUSE THE LID TO BLOW OFF WHICH CAN RESULT IN SEVERE INJURY, DEATH OR PROPERTY DAMAGE. TO AVOID THIS POTENTIAL HAZARD, FOLLOW THESE INSTRUCTIONS.

1. BEFORE REPOSITIONING VALVES AND BEFORE BEGINNING THE ASSEMBLY, DISASSEMBLY, OR ADJUSTMENT OF THE LID OR ANY OTHER SERVICE TO THE CIRCULATING SYSTEM: (A) TURN THE PUMP OFF AND SHUT OFF ANY AUTOMATIC CONTROLS TO ASSURE THE SYSTEM IS NOT INADVERTENTLY STARTED DURING THE SERVICING (B) OPEN THE AIR RELIEF VALVE, AND (C) WAIT UNTIL ALL PRESSURE IS RELIEVED – PRESSURE GAUGE MUST READ ZERO (0 psi).
2. WHENEVER INSTALLING THE FILTER LID, FOLLOW THE FILTER'S OWNERS MANUAL INSTALLATION INSTRUCTIONS EXACTLY.
3. ONCE SERVICE ON THE CIRCULATION SYSTEM IS COMPLETE, FOLLOW THE FILTER OWNERS MANUAL SYSTEM RESTART INSTRUCTIONS EXACTLY.

### 5.0 OPERATION

- 5.1 Turn the **Knob** of the **Manual Air Release Valve** to the "ON" position.
- 5.2 Start the filtration pump
- 5.3 Wait until all the air is released and the water starts to flow thru the purge tube.
- 5.4 Turn the **Knob** of the **Manual Air Release Valve** to the "OFF" position.
- 5.5 The valve will automatically continue the purge process at all subsequent starts of the filtration pump.
- 5.6 There will be a small discharge from the valve each time the system starts. This may leave water spots and residue on the filter. A hose can be connected to the valve to prevent this.
- 5.7 No manual purge is needed except during the debris purging (cleaning) process and/or after each filter cleaning.

**6.0 DEBRIS PURGE (CLEANING)**

- 6.1 Duration: This process should be performed about once a week (when you check chemicals and skim the pool).
- 6.2 Turn the **Knob** of the **Manual Air Release Valve** to the "ON" position.
- 6.3 Stand clear of the filter and start the pump.
- 6.4 Wait until all air is expelled from the filter and a steady stream of water is flowing.
- 6.5 The valve rotor will rotate and propel most the debris out of the valve.
- 6.6 Turn the **Knob** of the **Manual Air Release Valve** to the "OFF" position.

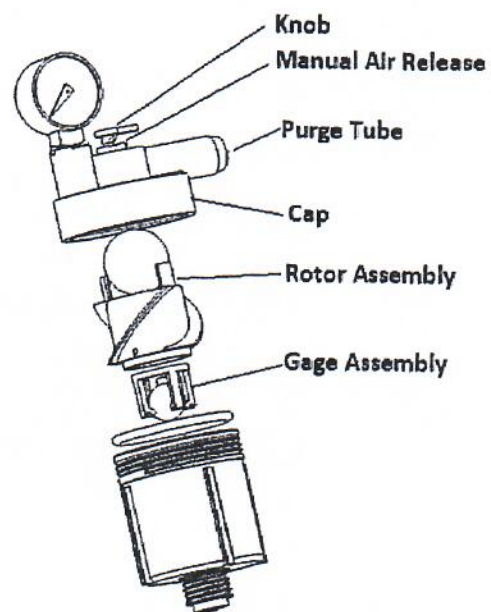


Figure 2, Assembly

## ! WARNING

THIS FILTER OPERATES UNDER HIGH PRESSURE. WHEN ANY PART OF THE CIRCULATING SYSTEM (E.G. CLAMP, PUMP, FILTER, VALVES, ETC .) IS SERVICED, AIR CAN ENTER THE SYSTEM AND BECOME PRESSURIZED. PRESSURIZED AIR CAN CAUSE THE LID TO BE BLOWN OFF WHICH CAN RESULT IN SEVERE INJURY, DEATH, OR PROPERTY DAMAGE. TO AVOID THIS POTENTIAL HAZARD, FOLLOW THE FILTER MANUFACTURERS RESTART INSTRUCTIONS.

### 7.0 CLEANING THE FILTER MANUALLY

- 7.1 Turn the pump off, shut off any automatic controlled device to ensure that the system is not inadvertently started during servicing.
- 7.2 Follow the instructions in section 9.0 for cleaning the Automatic Air Relief Safety Valve. This will allow the filter to drain so the filter lid can be easily removed once the clamp is removed.
- 7.3 Follow the filter manufacturer's directions for cleaning the filtration media and the filter tank.
- 7.4 Follow the filter manufacturer's directions for restarting the filtration system.

### 8.0 TROUBLESHOOTING

Problem	Probable Cause	Solution
Valve leaks water	Debris exist between upper ball and the sealing gasket	Perform cleaning operation per section 6.0
Valve does not vent air or water	Debris clogging entry to valve	Perform filter cleaning

### 9.0 MAINTENANCE (See figure 2)

- 9.1 Once a month, remove the valve for internal cleaning as follows:
  - 9.1.1 Unscrew the valve cap away from the valve body
  - 9.1.2 Remove the rotor assembly
  - 9.1.3 Using a garden hose wash off all dirt and debris from all the valves parts including the body
- 9.2 Reassemble the valve and reinstall it onto the filter per 4.0. Make certain that all O-rings and gaskets are in place.
- 9.3 Operate the valve per 5.0

**10.0 THREE YEAR LIMITED WARRANTY** VacCare LLC. Thanks you for the purchase of its Automatic Air Relief Safety Valve and is confident that you will enjoy many years of worry-free use. VacCare hereby warrants, to the original purchaser, that its products are free from defects in material and workmanship under normal use for a period of three (3) years from the date of purchase, by submission of the Proof of Purchase date. A one (1) years extended warranty is available, prior to the expiration of the three year warranty, at an additional cost.

If the product is determined to be defective during the warranty period, and upon proof of purchase, the Air Valve will be repaired or replaced with the same or similar unit. This is the sole and exclusive remedy for the consumer under a claim of defect in materials or workmanship. VacCare LLC. will cover shipping charges related to replacement of the unit. VacCare LLC. will not be responsible for any labor charges associated with any of the warranty claims

**LIMITATION ON WARRANTY** This warranty does not apply to damage due to corrosion, wear and tear from normal use, misuse, or abuse. This warranty will also not apply to damage caused by environmental factors, electrical surges, or operations in a manner that are not consistent with the intended use or as authorized in the Air Valve User Guide supplied at the time of purchase. Except where prohibits by law, in no event shall VacCare LLC. be liable for any loss or damage arising from the product, whether direct, indirect, special, punitive, incidental or consequential; whether based on warranty, contract, negligence or strict liability or any other legal theory. This warranty gives you the stated specific legal rights and you may have other rights that vary from state to state or country to country. VacCare LLC., neither assumes or authorizes any authorized distributor or dealer or any other person or entity to assume for it any other obligation beyond which is expressly provided for in this limited warranty including, without limitation, the provider or seller of any extended warrant or service agreement.

By purchasing this product, you agree that any action to enforce any provision of this limited warranty shall be filed in the Los Angeles Superior Court (general or limited jurisdiction) and shall be governed by the laws of the State of California. The prevailing party in any action or proceeding arising out of or to enforce any provision of this warranty shall be awarded reasonable attorneys' fees and costs.

Please complete the warranty form below.

To ensure notification of any potential product recalls and to expedite processing of a warranty claim please complete the online form and shown below and click on the submit button. Alternately, print the form and complete out by hand, the post to the appropriate address below.

**Instruction:**

This form allows a pool or spa technician to certify that an Air Valve has been installed. Sections A must be filled out by the technician or the home owner at the time of installation. A copy of this completed form must be promptly submitted to Vaccare, LLC by mail, via fax (818) 701-6206, or at vaccare.com. A copy should also be provided to the home owner for their personal records.

Section A Site Information	<u>Installer Name/Phone #</u>	<u>Customer Name</u>	<u>Installation Date</u>
	<u>Site Street Address</u>	<u>Site City, State</u>	<u>Site Phone Number</u>

Section B Purchase Information	<u>Air Valve Model Number</u>	<u>Serial Number</u>	<u>Purchase Date</u>
	<u>Dealer Name</u>	<u>Dealer Street Address</u>	<u>Dealer City, State</u>