



SWIMMING POOL EQUIPMENT AND COMPONENTS

These product category descriptions are to be used in conjunction with the “Overview of ARL’s Listing, Labeling and Follow-Up Inspection Services” (LSc001) which details ARL’s system requirements for obtaining a listed product certification.

This includes the following subcategories:

- **Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub and Wading Pool Suction Systems**
- **Swimming Pool Pumps, Filters, Chlorinators, and Related Materials and Components**

Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub and Wading Pool Suction Systems

The products listed here are safety vacuum release systems (SVRS) intended to be utilized on pool, spa, hot tub, and/or therapy unit suction systems. SVRS devices covered by requirements for this category are designed to prevent high vacuum occurrences that cause human body or body part suction entrapment.

Demonstration of compliance with these requirements is an indication that the product meets the performance requirements and specifications contained in this product category. The responsibility for verification of the device’s performance on any circulation systems shall be the responsibility of the design professional.

A safety vacuum release system is defined as a system or device capable of providing vacuum release at a suction outlet caused by a high vacuum occurrence due to a suction outlet flow blockage, by either venting the circulation system to atmosphere, turning off the circulating pump, or reversing circulation flow. The device or system provides vacuum release with or without suction fitting cover(s) in place. Each product is marked with the name or trademark of the (manufacturer) or vendor, a distinctive type, style, catalog, model designation, or tradename and date code.

These products comply with ARL requirements which include pertinent sections of **ANSI/ASME A112.19.17 Manufactured Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub and Wading Pool Suction Systems.**

Swimming Pool Pumps, Filters, Chlorinators, and Related Materials and Components

The products listed here are motor operated water pumps of the non-submersible type, pump filter combinations, chlorinators, and related components and materials for use with swimming pools, hot tubs and spas in accordance with the National Electrical Code, NFPA 70.

Swimming pool pumps, pump-filter combinations, and chlorinators covered by requirements for this category may be permanently connected or cord and plug connected to the electrical supply.

Permanently connected units may be covered for indoor use only or for indoor and outdoor use. Cord and plug connected units are judged under requirements for outdoor use, but may also be used indoors.

Swimming pool pumps intended for use with storable pools are provided with a minimum 25 foot (7.6 meter) non-detachable power supply cord, are double insulated, have no accessible grounded metal, and have inaccessible dead metal connected to the grounding conductor of the cord. Pumps intended for permanent use may be permanently wired or provided with a maximum 3 foot (0.91 meter) non-detachable power supply cord and, in addition, are provided with an accessible wire connector for bonding to all metal parts of the pool, hot tub, or spa structure and to all electrical equipment conduit and piping within 5 feet (1.5 meter) of the inside wall of the pool, hot tub, or spa. Hot tub and spa pumps covered by these requirements are not intended for use within an outer enclosure or beneath the skirt of a hot tub or spa, unless so marked.

Chlorinators covered by requirements for this category of products may consist of assemblies such as (1) a chlorinator and clock operated valve for use with a water circulating system, (2) a pump with chlorine injection or (3) electrolytic type chlorinating equipment.

The requirements for this category of products **do not** cover (1) pumping equipment for fire service or other products that are covered by individual requirements elsewhere, (2) a pump rated at more than 600 volts, (3) a pump rated at more than 5 horsepower (unless NSF 50 investigated), (4) a pump involving a universal motor rated at more than 250 volts, or (5) a sump pump, fountain pump, aquarium pump, or other products for which individual requirements exist.

- Each product is marked with the name or trademark of the (manufacturer) or vendor, a distinctive style, type, catalog or model designation, electrical ratings, wiring diagram, electrical hazard and cautionary warnings, installation warnings, date code, normal running speed and, if applicable, marked "Suitable For Outdoor Use."

These products comply with ARL requirements which include pertinent sections of one or more of the following standards: **Standard for Safety, ANSI/UL 1081, Swimming Pool Pumps, Filters and Chlorinators and ANSI/ASME A112.19.17 Manufactured safety vacuum release systems (SVRS) for residential and commercial swimming pool, spa, hot tub, and wading pool suction systems.**

A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements of the standard, and that involve a risk of fire, electric shock, or injury to persons, have been evaluated using the appropriate additional component and end-product requirements as determined necessary to maintain the acceptable level of safety as originally anticipated by the intent of the standard. A product whose features, characteristics, components, materials, or systems conflict with specific provisions of the standard have been judged to be in non-compliance with the standard.

Only products which properly bear the ARL Listing Mark (Label) are considered Listed by ARL.