

**INTERNATIONAL ASSOCIATION OF PLUMBING
AND MECHANICAL OFFICIALS**

MATERIAL AND PROPERTY STANDARD

FOR

**SPECIAL USE SUCTION FITTINGS
FOR SWIMMING POOLS, SPAS AND HOT TUBS
(FOR SUCTION SIDE AUTOMATIC SWIMMING POOL CLEANERS)**

IAPMO SPS 4-2000

1. PURPOSE

- 1.1** The purpose of this standard is to establish a generally acceptable standard for special use suction fittings which are designed to be totally submerged and of suitable material for use in swimming pools, spas, and hot tubs. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding materials, manufacture and installation; and to provide for identifying fittings that conform to the standard.
- 1.2** The fitting is intended to provide a safe point of connection of suction for suction side automatic swimming pools, spas, and hot tubs cleaners. It must prevent the vacuum hose from becoming disconnected from the suction supply while the cleaner is in operation, and also when the filter system is turned off. The fitting must provide a means of preventing an open vacuum line to the swimming pools, spas, and hot tubs when the filter system is operating and there is a vacuum of more than 10" Hg being applied to the vacuum line, if the fitting is provided with a latch, and should automatically close at 0" Hg if a latching mechanism is not used. The fitting must lock, or automatically close, when the system is operated without the hose connected to the fitting and 10" or more vacuum is applied to the vacuum line. A tool must be used to reopen the fitting after it has locked (fittings with latch), or is fully closed (fittings with no latch).
- 1.3** **Variations in Design and Operation:** A component varying in design and/ or operation may qualify under this standard. Appropriate tests and investigations shall indicate the component performs as well as components complying with this standard. Such components shall meet the requirements for materials, finishes and construction in this standard.