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Aquatic Venues & Daily Operations

What is an Aquatic Venue?

- ISPSC: Aquatic Recreation Facility – A facility that is designed for free-form aquatic play and recreation…
- MAHC: Aquatic Venue – […] structure where the general public is exposed to water intended for recreational or therapeutic purpose…
- FDHU: Swimming Pool – structure […] for swimming, diving, recreational bathing or wading…

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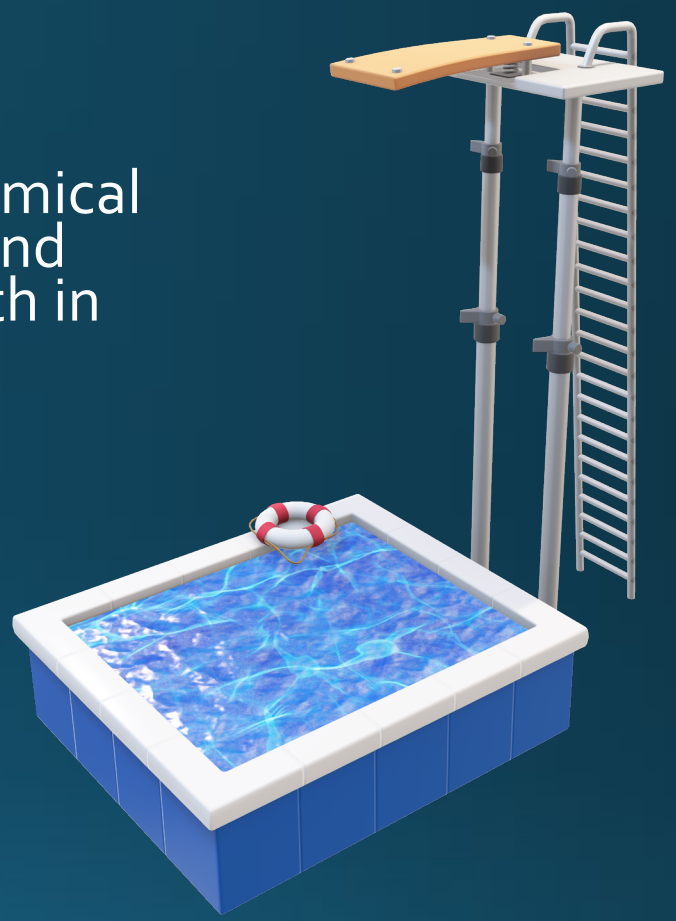
What is an Aquatic Venue?

- Includes ID & OD pool/spa areas, mechanical rooms, chemical rooms, lifeguard rooms, aquatics offices, locker rooms, and anywhere else a patron or staff member may interact with in their role
- Accessible by the public
- Water designed for recreation or an intended purpose
- Located at a constructed or intended naturally occurring structure or space



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Aquatic Venues

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Defining further

Classifications

- A: Accredited comp. pool
- B: Public pool
- C: Semi-public pool
- D: Activity Pool
  - D1: Wave
  - D2: Activity
  - D3: Catch (plunge)
  - D4: Leisure river
  - D5: Vortex pool
  - D6: Interactive play feature
- E: Therapy pool
- F: Wading pool

Types

- Type 0: Non-diving
- Type 1-5: Residential pools suitable for diving and type specific diving equipment
- Type 6-9: Public or semi-public pools suitable for type specific diving equipment

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Why do we classify and use types?

- Construction tolerances
- Turnover rates
- Capacities
- Lifeguard and lifesaving equipment requirements
- Signs and demarcations
- Ease of communication
- Rules & Regulations
- Agreed upon operational practices
- Diving qualifications

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Public Safety Factors

- Access
- Pool surfaces, decks, locker rooms
- Signs and rules
- Safety and rescue equipment
- Alarms
- Cleansing shower
- Adherence to rules
- Risk of drowning
- **Suction entrapment**
- Water clarity and quality
- Equipment operation
- Activity pools and water features
- Hyperthermia
- Electrocution
- Mechanical room safety
- Hypothermia

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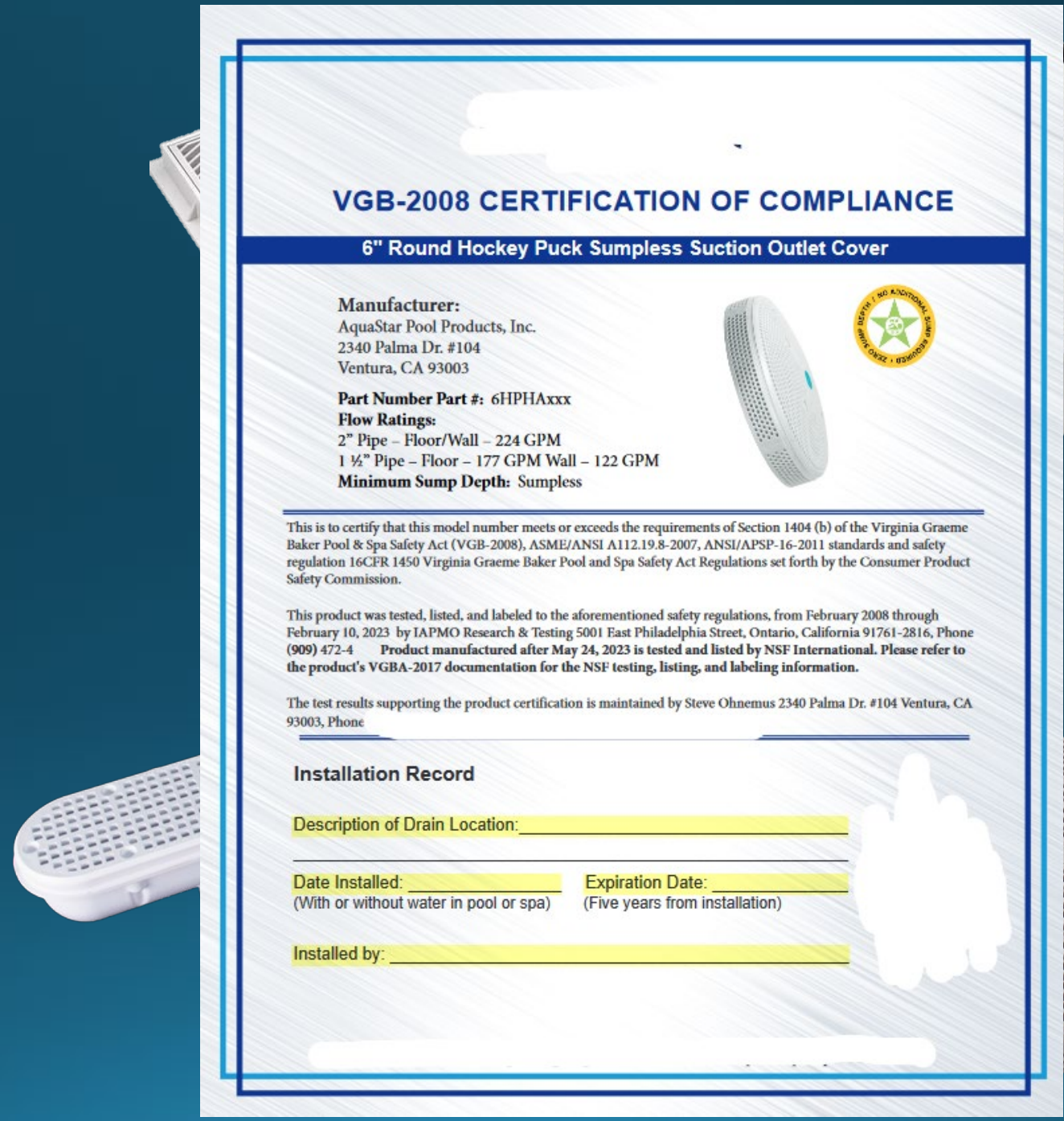
SOFAs

Suction Outlet Fitting Assembly is the cover or fitting securely fastened to any suction outlet in the water to reduce the risk of entrapment

- Lifespan
- Location
- Installation instructions
- Daily inspection
- VGB compliance
- Flow rating



VGB-2008 CERTIFICATION OF COMPLIANCE

6" Round Hockey Puck Sumpless Suction Outlet Cover

Manufacturer:
AquaStar Pool Products, Inc.
2340 Palma Dr. #104
Ventura, CA 93003

Part Number Part #: 6HPHAxxx
Flow Ratings:
2" Pipe – Floor/Wall – 224 GPM
1 ½" Pipe – Floor – 177 GPM Wall – 122 GPM
Minimum Sump Depth: Sumpless

This is to certify that this model number meets or exceeds the requirements of Section 1404 (b) of the Virginia Graeme Baker Pool & Spa Safety Act (VGB-2008), ASME/ANSI A112.19.8-2007, ANSI/APSP-16-2011 standards and safety regulation 16CFR 1450 Virginia Graeme Baker Pool and Spa Safety Act Regulations set forth by the Consumer Product Safety Commission.

This product was tested, listed, and labeled to the aforementioned safety regulations, from February 2008 through February 10, 2023 by IAPMO Research & Testing 5001 East Philadelphia Street, Ontario, California 91761-2816, Phone (909) 472-4 **Product manufactured after May 24, 2023 is tested and listed by NSF International. Please refer to the product's VGBA-2017 documentation for the NSF testing, listing, and labeling information.**

The test results supporting the product certification is maintained by Steve Ohnemus 2340 Palma Dr. #104 Ventura, CA 93003, Phone

Installation Record

Description of Drain Location: _____

Date Installed: _____ Expiration Date: _____
(With or without water in pool or spa) (Five years from installation)

Installed by: _____

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What is my role in making swimming safer?

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PREVENTION

Drowning

- Never swim alone
- Learn to swim programs
- New user orientation
- Regular lifeguard training
- Aquatic staff CPR & First aid certification requirements

Entrapment

- Daily inspection of SOFAs
- Routine thorough inspections
- Verify lifespans
- VGB Compliance
- Adherence to manufacturer's installation and operational instructions

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Operations

Daily Operations

- Daily logs
- **Water chemistry**
- Recirc. system metrics
- **SOFA inspection**
- **Barriers & gates**
- Decks, locker rooms, and surfaces
- Chemical additions and controllers

Routine Operations

- Equipment maintenance schedules
- Cleaning equipment
- Servicing equipment
- Reducing unplanned downtime
- Decks, locker rooms, and surfaces disinfection

Seasonal Operations

- Winterization
- Draining pool
- Repainting or resurfacing
- Renovations
- Regulation adherence
- Mechanical room and storage"spring cleaning"

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Water Testing

Importance

- Accurate water evaluation
- Correct chemical additions
- Prevention of RWIs
- Prevention of cloudy water
- Reduce unscheduled downtime
- Equipment life extension

Not accurate, Not precise

Accurate, Not precise

Not accurate, precise

Accurate & Precise

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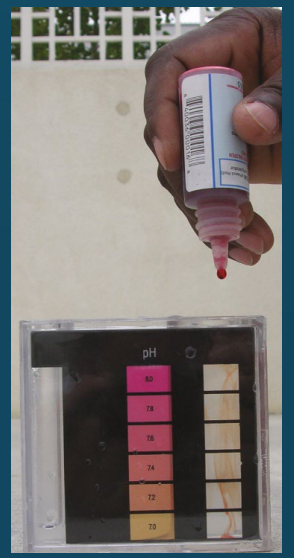
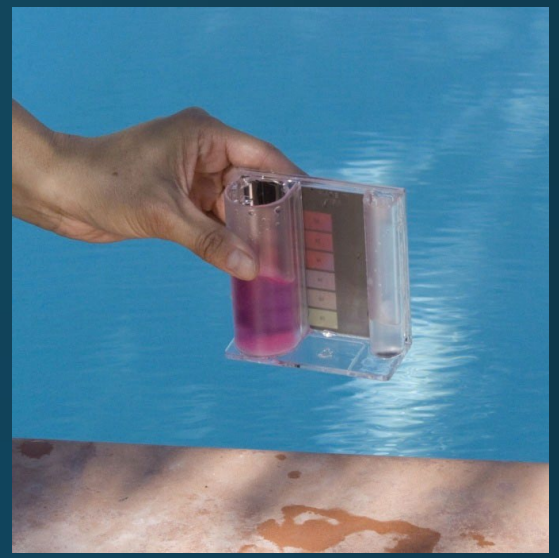
Water Testing





Sample collection

- 18” below water surface
- Away from returns
- Avoid debris/scum
- Representative of the body of water
- Plastic collector

Key Practices

- Adhere to test kit instructions
- Accurate sample volume
- Meniscus effect
- Accurate reagent size
- Adequate mixing
- Proper (consistent) lighting

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Record Keeping – Operations

External - Public

- Barriers, decks, locker rooms
- Trash around pool deck
- Chairs, tables, loungers cleaned and set up nicely
- Skimmers/gutter free of debris
- SOFAs secured and fastened
- Pool clean of debris
- Rescue equipment in place and in working condition
- Signs and demarcations
- Liability mitigation

External - EQ

- Water chemistry
  - Free cl, combined cl
  - pH
  - Total Alkalinity
  - LSI
- System metrics
  - Flowrate
  - Filter PSI
  - Temperature
  - Heater status
- Controller setpoint, reading, and true value
- Backwash date
- Chemical additions and water reaction
- Emergency event records
- Hazard communication plans
- Liability mitigation

Internal - Revenue

- Chemical inventory
- Users
- Backwash duration
- Chemical usage
- Controller feed data
- Tracking scheduled and unscheduled downtime
- Substantial renovation and modernization projects

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Routine Records

Equipment & Operations

- All equipment make and model
- Operation manuals
- Service history with invoices
- Cost of equipment to date
- Projected future costs
- New unit cost
- SDS sheets
- Emergency action plans

Past & Future Costs

- Facility cost previous calendar year
- Breakdown of cost
  - Chemicals
  - Utilities – water, gas, electric
  - Labor
  - Service costs
  - Equipment costs

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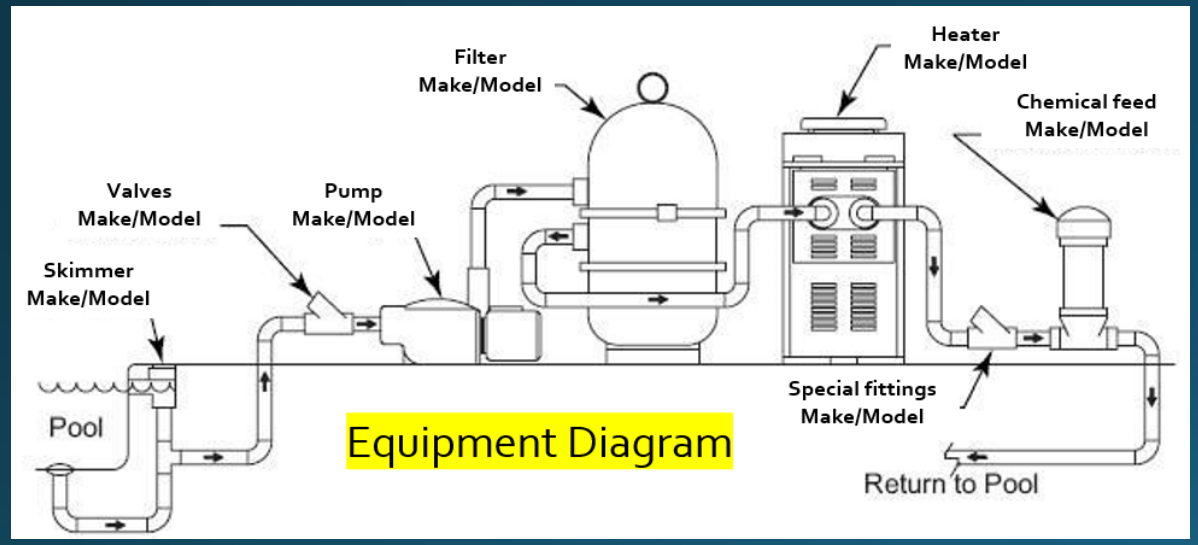
Equipment & Operations Example

Ops Records

1. Daily Logs
2. Opening/Closing Checklists



Equipment Diagram

EQ Records

1. Equipment Diagram
   a. All equipment make/model
2. Equipment Manuals
3. Service History
   a. Invoices for equipment by date or by equipment
4. Equipment Cost to Date
   a. Total time/money into each piece of equipment
5. Future Costs
   a. New unit cost by date or by equipment
6. SDS Sheets
7. Certifications & Expiration

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Questions?

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