

IAPMO RESEARCH AND TESTING, INC.

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CERTIFICATE OF LISTING



IAPMO Research and Testing, Inc. is a product certification body in which its product certification system includes inspection and testing of samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and/or warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

Issued To:

DALDORADO, LLC.

4327 ARNOLD AVE. NAPLES, FL 34104 , United States

Product:

Suction Outlet Fitting Assemblies (SOFA) for Use in Pools, Spas, and Hot Tubs

Products are in compliance with the following code(s):
Uniform Swimming Pool, Spa and Hot Tub Code (USPC®)

Products are certified to the following standard(s):
ANSI/APSP/ICC-16 2017 (PA 2021)
NSF/ANSI/CAN 50-2020

File Number: SP-10930

Revised Date: August 18, 2022

Effective Date: February 2019

Void After: February 2024*


Chairman, Product Certification Committee




Chief Technical Service Officer

*This certificate is not evidence of current listing. To verify listing status, visit the IAPMO R&T Product Listing Directory at pld.iapmo.org

This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing. This document shall be reproduced in its entirety.

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Identification:

Covers/Grate shall be permanently marked as follows with font size of at least 0.08-in. (2.03 mm) tall and in a manner so as to be visible after installation. The name, trade name or trademark of the manufacture, a distinctive part number, the type of service, "Blockable" or "Unblockable", the manufacturer specified service life in years, "VGBA ####" where #### indicates the year this standard was approved by the American National Standards Institute, wall and floor flow rating or "For Flow Rating See Instructions", and the USPC® certification mark®. Covers/Grate shall also be permanently marked with the date of manufacture, or period of manufacture not exceeding 1 month, in a manner so as to be visible before or after installation.

Manufactured Sumps and Mud Frames shall be permanently marked as follows with font size of at least 0.08-in. (2.03 mm) tall and in a manner so as to be visible after installation but may be permitted to be hidden when cover/grate is installed. The name, trade name or trademark of the manufacture, a distinctive part number, the manufacturer specified service life in years.

Manufactured Sumps and Mud Frames shall also be permanently marked with the date of manufacture, or period of manufacture not exceeding 1 month, in a manner so as to be visible after installation but may be permitted to be hidden when cover/grate is installed.

Self-Contained spa SOFA cover/grate shall also be marked with "For Use in Self-Contained Factory-Manufactured Spas only"

Characteristics:

Suction Outlet Fitting Assemblies (SOFAs) to be fully submerged for use in swimming pool, hot tubs, spas, portable spa or non-portable wading pool or other aquatic venue intended for swimming or recreational bathing. To be installed in accordance with the manufacturer's instructions and the latest edition of the USPC®.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

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Models

Model Number	Description
DalMAX-SG-183624	Manufactured sump DalMAX-SO-183624, two (2) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners, Floor: 1984 GPM, Wall: 1440 GPM, Port Size = 8"
DalMAX-SG-183625	Manufactured sump DalMAX-SO-183625, two (2) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners, Floor: 1984 GPM, Wall: 1440 GPM, Max Port Size = 8"
DalMAX-SG-183628	Manufactured sump DalMAX-SO-183628, two (2) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners, Floor: 2480 GPM, Wall: 1909 GPM, Max Port Size = 10"
DalMAX-SG-183634	Manufactured sump DalMAX-SO-183634, two (2) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners, Floor: 2869 GPM, Wall: 2080 GPM, Max Port Size = 12"
DalMAX-SG-185424	Manufactured sump DalMAX-SO-185424, three (3) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners, Floor: 2872 GPM, Wall: 2872 GPM, Port Size = 10"
DalMAX-SG-185427	Manufactured sump DalMAX-SO-185427, three (3) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners, Floor: 2872 GPM, Wall: 2872 GPM, Max Port Size = 10"
DalMAX-SG-185428	Manufactured sump DalMAX-SO-185428, three (3) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners, Floor: 2944 GPM, Wall: 2872 GPM, Port Size = 12"
DalMAX-SG-185429	Manufactured sump DalMAX-SO-185429, three (3) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners, Floor: 2944 GPM, Wall: 2872 GPM, Max Port Size = 12"
DalMAX-SG-185434	Manufactured sump DalMAX-SO-185434, three (3) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners, Floor: 4412 GPM, Wall: N/A, Max Port Size = 14"
DalMAX-SG-242430	Manufactured sump DalMAX-SO-242430, one (1) DalMAX-GO-2424 grate model with DFS-DalMAX-SG fasteners, Floor: 1734 GPM, Wall: 1600 GPM, Max Port Size = 10" (17" Flow path length)
DalMAX-SG-242412-03	Manufactured sump DalMAX-SO-242412, one (1) DalMAX-GO-2424 grate model with DFS-DalMAX-SG fasteners, Floor: 408 GPM, Wall: N/A, Max Port Size = 3"
DalMAX-SG-242412-04	Manufactured sump DalMAX-SO-242412, one (1) DalMAX-GO-2424 grate model with DFS-DalMAX-SG fasteners, Floor: 712 GPM, Wall: N/A, Max Port Size = 4"
DalMAX-SG-242412-06	Manufactured sump DalMAX-SO-242412, one (1) DalMAX-GO-2424 grate model with DFS-DalMAX-SG fasteners, Floor: 1664 GPM, Wall: N/A, Max Port Size = 6"
DalMAX-FG-183624	Retrofit frame DalMAX-FO-1836, two (2) DalMAX-GO-1818 grate model with DFS-DalMAX-FG fasteners, Floor: 1984 GPM, Wall: 1440 GPM, Port Size = 8"
DalMAX-FG-183625	Retrofit frame (25" Sump Depth, 15" to 16" flow path length from top of port to the top of the grate, 8" side port) DalMAX-FO-1836, two (2) DalMAX-GO-1818 grate model with DFS-DalMAX-FG fasteners, Floor: 1984 GPM, Wall: 1440 GPM, Max Port Size = 8"
DalMAX-FG-183628	Retrofit frame (28" Sump Depth, >16" flow path length from top of port to the top of the grate, 10" side port) DalMAX-FO-1836, two (2) DalMAX-GO-1818 grate model with DFS-DalMAX-FG fasteners, Floor: 2480, Wall: 1909, Max Port Size = 10"

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DalMAX-FG-183634	Retrofit frame (34" Sump Depth, >16" flow path length from top of port to the top of the grate, 12" side port) DalMAX-FO-1836, two (2) DalMAX-GO-1818 grate model with DFS-DalMAX-FG fasteners, Floor: 2869 GPM, Wall: 2080 GPM, Max Port Size = 12"
DalMAX-FG-185424	Retrofit frame DalMAX-FO-1854, three (3) DalMAX-GO-1818 grate model with DFS-DalMAX-FG fasteners, Floor: 2872 GPM, Wall: 2872 GPM, Port Size = 10"
DalMAX-FG-185427	Retrofit frame (27" Sump Depth, >16" flow path length from top of port to the top of the grate, 10" side port) DalMAX-FO-1854, three (3) DalMAX-GO-1818 grate model with DFS-DalMAX-FG fasteners, Floor: 2872 GPM, Wall: 2872 GPM, Max Port Size = 10"
DalMAX-FG-185428	Retrofit frame DalMAX-FO-1854, three (3) DalMAX-GO-1818 grate model with DFS-DalMAX-FG fasteners, Floor: 2944 GPM, Wall: 2872 GPM, Port Size = 12"
DalMAX-FG-185429	Retrofit frame (29" Sump Depth, 15" to 16" flow path length from top of port to the top of the grate, 12" side port) DalMAX-FO-1854, three (3) DalMAX-GO-1818 grate model with DFS-DalMAX-FG fasteners, Floor: 2944 GPM, Wall: 2872 GPM, Max Port Size = 12"
DalMAX-FG-185434	Retrofit frame (34" Sump Depth, 14" side port) DalMAX-FO-1854, three (3) DalMAX-GO-1818 grate model with DFS-DalMAX-FG fasteners, Floor: 4412 GPM, Wall: N/A, Max Port Size = 14"
DalMAX-FG-242430	Retrofit frame (30" Sump Depth, 17" flow path length from top of port to the top of the grate, 10" side port) DalMAX-FO-2424, one (1) DalMAX-GO-2424 grate model with DFS-DalMAX-FG fasteners, Floor: 1734 GPM, Wall: 1600 GPM, Max Port Size = 10"
DMD-FG-2424	Retrofit frame (24" Sump Depth, 15" to 16" flow path length from top of port to the top of the grate, 8" side port) DalMAX-FO-2424, one (1) DMD-GO-2424 grate model with DFS-FASTSET-MD-CU fasteners, Floor: 825 GPM, Wall: 825 GPM, Max Port Size = 8"
*DalMAX-SG-244834	Manufactured sump DalMAX-SO-244834, two (2) DalMAX-GO-2424 grate model with DFS-DalMAX-SG fasteners. Note: Applying the Q Formula per Section 3.9 of ANSI/APSP/ICC-16 yields Floor: 6456 GPM, Wall: N/A, Port size 16" (Flow Path 16.5") Certification is based on testing the DalMAX-FG-242430 model because of lab capability restrictions; Floor: 1734 GPM, Wall: 1600 GPM, Max Port Size = 10" (17" Flow path length)
*DalMAX-SG-244842	Manufactured sump DalMAX-SO-244842, two (2) DalMAX-GO-2424 grate model with DFS-DalMAX-SG fasteners. Note: Applying the Q Formula per Section 3.9 of ANSI/APSP/ICC-16 yields Floor: 6456 GPM, Wall: N/A, Port size 24" (Flow Path 16.5") Certification is based on testing the DalMAX-FG-242430 model because of lab capability restrictions; Floor: 1734 GPM, Wall: 1600 GPM, Max Port Size = 10" (17" Flow path length)
*DalMAX-FG-244834	Retrofit frame, two (2) DalMAX-GO-2424 grate model with DFS-DalMAX-SG fasteners. Note: Applying the Q Formula per Section 3.9 of ANSI/APSP/ICC-16 yields Floor: 6456 GPM, Wall: N/A, Port size 16" (Flow Path 16.5") . Certification is based on testing the DalMAX-FG-242430 model because of lab capability restrictions; Floor: 1734 GPM, Wall: 1600 GPM, Max Port Size = 10" (17" Flow path length)
*DalMAX-FG-244842	Retrofit frame, two (2) DalMAX-GO-2424 grate model with DFS-DalMAX-SG fasteners. Note: Applying the Q Formula per Section 3.9 of ANSI/APSP/ICC-16 yields Floor: 6456 GPM, Wall: N/A, Port size 24" (Flow Path 16.5") Certification is based on testing the DalMAX-FG-242430 model because of lab capability restrictions; Floor: 1734 GPM, Wall: 1600 GPM, Max Port Size = 10" (17" Flow path length)

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Model Number	Description
*DalMAX-SG-187234	Manufactured sump DalMAX-SO-185434, four (4) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners. Note: Applying the Q Formula per Section 3.9 of ANSI/APSP/ICC-16 yields Floor: 7715 GPM, Wall: N/A, Port size 16" (Flow Path 16.5") Certification is based on testing the DalMAX-SG-185434 model because of lab capability restrictions; Floor: 4412 GPM, Wall: N/A, Max Port Size = 14"
*DalMAX-SG-187242	Manufactured sump DalMAX-SO-185442, four (4) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners. Note: Applying the Q Formula per Section 3.9 of ANSI/APSP/ICC-16 yields Floor: 7715 GPM, Wall: N/A, Port size 24" (Flow Path 16.5") Certification is based on testing the DalMAX-SG-185434 model because of lab capability restrictions; Floor: 4412 GPM, Wall: N/A, Max Port Size = 14"
*DalMAX-FG-187234	Retrofit frame (34" Sump Depth, 14" side port), four (4) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners. Note: Applying the Q Formula per Section 3.9 of ANSI/APSP/ICC-16 yields Floor: 7715 GPM, Wall: N/A, Port size 16" (Flow Path 16.5") Certification is based on testing the DalMAX-SG-185434 model because of lab capability restrictions; Floor: 4412 GPM, Wall: N/A, Max Port Size = 14"
*DalMAX-FG-187242	Retrofit frame (42" Sump Depth, 14" side port), four (4) DalMAX-GO-1818 grate model with DFS-DalMAX-SG fasteners. Note: Applying the Q Formula per Section 3.9 of ANSI/APSP/ICC-16 yields Floor: 7715 GPM, Wall: N/A, Port size 24" (Flow Path 16.5") Certification is based on testing the DalMAX-SG-185434 model because of lab capability restrictions; Floor: 4412 GPM, Wall: N/A, Max Port Size = 14"

Note: *For models indicated by an asterisk

- Tested flow rate was hydraulically limited due to lab pipe/pump system not sufficient for large sized SOFA's
- The lessor of the Q Formula per Section 3.9 of ANSI/APSP/ICC-16 2017 and the velocities derived from the testing of the next size down was considered the most conservative flow rate, based on engineering evaluation.