**All DalMax Sump and Grates (SOFA’S) are Certified under**

**APSP-16 2017 (PA 2021) and NSF/ANSI/CAN 50-2020**

**SOFA – Suction Outlet Fitting Assembly**

DalMax SOFA’s listed below are IAPMO certified for all custom piping configurations

All suction pipe locations are >16” below top of grate; total flow cannot exceed certified flow rates

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Model Number | Size(inches) | Depth(inches) | Max Port Size (inches) | Open Area(inches2) | Certified Max Flow (GPM) | Velocity at Max Flow (ft/s) | Flow Rate (GPM)At Velocity (ft/s) |
| Side Port | Bottom Port | Floor | Wall | Floor | Wall | 0.5 | 1.0 | 1.5 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DalMax-SG-242430 | 24x24 | 30 | 12 | 24 | 357 | 1734 | 1600 | 1.56 | 1.44 | 556 | 1113 | 1669 |
| DalMax-SG-183625 | 18x36 | 25 | 8 | 24 | 401 | 1984 | 1440 | 1.59 | 1.15 | 625 | 1250 | 1875 |
| DalMax-SG-183628 | 18x36 | 28 | 10 | 24 | 401 | 2480 | 1909 | 1.98 | 1.53 | 625 | 1250 | 1875 |
| DalMax-SG-183634 | 18x36 | 34 | 16 | 24 | 401 | 2869 | 2080 | 2.30 | 1.66 | 625 | 1250 | 1875 |
| DalMax-SG-185427 | 18x54 | 27 | 10 | 24 | 602 | 2872 | 2872 | 1.53 | 1.53 | 938 | 1876 | 2815 |
| DalMax-SG-185429 | 18x54 | 29 | 12 | 24 | 602 | 2944 | 2872 | 1.57 | 1.53 | 938 | 1876 | 2815 |
| DalMax-SG-185434 | 18x54 | 34 | 16 | 24 | 602 | 4412 | N/A | 2.35 | N/A | 938 | 1876 | 2815 |
| DalMax-SG-187234\* | 18x72 | 34 | 16 | 24 | 803 | 7715 | N/A | 3.08 | N/A | 1252 | 2504 | 3756 |
| DalMax-SG-187242\* | 18x72 | 42 | 24 | 24 | 803 | 7715 | N/A | 3.08 | N/A | 1252 | 2504 | 3756 |
| DalMax-SG-244834\* | 24x48 | 34 | 16 | 24 | 714 | 6456 | N/A | 2.90 | N/A | 1113 | 2226 | 3339 |
| DalMax-SG-244842\* | 24x48 | 42 | 24 | 24 | 714 | 6456 | N/A | 2.90 | N/A | 113 | 2226 | 3339 |

\*Tested flow rate was hydraulically limited due to lab pipe/pump system not sufficient for large size SOFA’s.

\*The Lesser 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.

**DalMAX SOFA’s listed below are IAPMO certified for single piping configuration only**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Model Number | Size (inches) | Depth (inches) | Max Port Size (inches) | Open Area (inches2) | Certified Max Flow (GPM) | Velocity at Max Flow (ft/s) | Flow Rate (GPM) at Velocity (ft/s) |
| Side Port | Bottom Port | Floor | Wall | Floor | Wall | 0.5 | 1.0 | 1.5 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DalMAX-SG-242412-06 | 24x24 | 12 | 6 | 6 | 357 | 1644 | N/A | 1.50 | N/A | 556 | 1113 | 1669 |
| DalMAX-SG-242412-04 | 24x24 | 12 | 4 | 4 | 357 | 715 | N/A | 0.64 | N/A | 556 | N/A | N/A |
| DalMAX-SG-242421-BEAST | 24X24 | 21 | 10 | N/A | 357 | 1734 | 1552 | 1.56 | 1.44 | 556 | 1113 | 1669 |

**Grate Service Life: 25 Years**

**Sump Service Life: Life of the Aquatic Facility**

REV 2-10-25