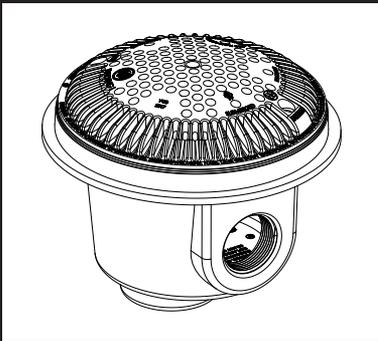




Dual Submerged Suction Outlet Set & Replacement Covers

Commonly Called Main Drains

Owner's Manual



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Suction Outlet Models:

- WG1030
- WG1048
- WG1049
- WG1051
- WG1052
- WG1053
- WG1054
- WG1153
- WG1154

Covers:

(suitable for all models)

- WGX1048E
- WGX1048EDGR
- WGX1048EGR
- WGX1048EBLK



NSF/ANSI/CAN 50
& ANSI/APSP/ICC - 16

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IMPORTANT SAFETY INSTRUCTIONS

- ▲** This is the safety-alert symbol. When you see this symbol on equipment or in this manual, look for one of the following signal words and be alert to the potential for personal injury:
- ▲ DANGER** – indicates an imminently hazardous situation which, if not avoided, **will** result in death, serious injury, or major property damage.
- ▲ WARNING** – warns about hazards that could cause serious personal injury, death or major property damage and if ignored presents a potential hazard.
- ▲ CAUTION** – warns about hazards that will or can cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.
- ▲ NOTICE** – indicates special instructions that are important but not related to hazards.



READ AND FOLLOW ALL INSTRUCTIONS

▲ WARNING – Read and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.

▲ WARNING – **Suction Entrapment Hazard.** Suction in suction outlets and/or suction outlet covers which are, damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:



Hair Entrapment: Hair can become entangled in suction outlet cover.



Limb Entrapment: A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.



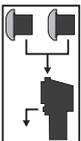
Body Suction Entrapment: A negative pressure applied to a large portion of the body or limbs can result in an entrapment.



Evisceration/ Disembowelment: A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is, damaged, broken, cracked, missing, or unsecured can result in evisceration/disembowelment.

Mechanical Entrapment: There is potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

▲ WARNING – **To Reduce the risk of Entrapment Hazards:**



- When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [1 meter] apart, as measured from center to center.
- Dual suction fittings installed closer than three feet center to center shall be located on two different planes, i.e. one suction fitting assembly shall be on the pool floor, and one shall be located on a vertical wall, or one fitting shall be located on each of two separate walls.



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- Suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- The maximum system flow rate shall not exceed the flow rating of as listed on Table 1 for the Branch piping.
- The maximum specific flow rating of the Suction Outlet Assembly shall not be exceeded at any time the pool is open to bathers.
- Never use Pool or Spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately, before bathers are allowed to use the pool.
- In addition to two or more suction outlets per pump which should be installed in accordance with latest ASME, APSP Standards and CPSC guidelines, all applicable National, State, and Local codes should be followed.
- Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.
- Only Hayward specified fasteners (screws) shall be used to secure the suction outlet cover.

▲ WARNING – Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increase potential for suction entrapment as described above.

▲ WARNING – Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increased potential for suction entrapment as described above.

▲ WARNING – Suction outlet components have a finite life. The cover/grate and screws should be inspected frequently and replaced at least every seven years or if found to be damaged, broken, cracked, missing, or not securely attached. All other SOFA components should be inspected frequently and replaced at least every 28 years or if found to be damaged, broken, cracked. Service life begins in the month and year of installation.

▲ CAUTION – Components such as the filtration system, pumps and heater must be positioned so as to prevent their being used as means of access to the pool by young children. To reduce risk of injury, do not permit children to use or climb on these products. Closely supervise children at all times. Components such as the filtration system, pumps, and heaters must be positioned to prevent children from using them as a means of access to the pool.



▲ WARNING – Hazardous Pressure. Pool and spa water circulation systems operate under hazardous pressure during start up, normal operation, and after pump shut off. Stand clear of circulation system equipment during pump start up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover, and/or filter housing and clamp due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in the open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change the filter control valve position while the system pump is running. Before starting the system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged.



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▲ WARNING – Separation Hazard. Failure to follow safety and operation instructions could result in violent separation of pump and/or filter components. The strainer cover must be properly secured to pump housing with the strainer cover lock ring. Before servicing a pool and spa circulation system, the filter's manual air relief valve must be in the open position. Do not operate a pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter manual air relief valve body is in locked position in filter upper body. Never operate or test the circulation system at more than 50 PSI. Do not purge the system with compressed air. Purging the system with compressed air can cause components to explode, with risk of severe injury or death to anyone nearby. Use only a low pressure (below 5 PSI), high volume blower when air purging the pump, filter, or piping.

▲ WARNING – Any modification that increases the flow rate of the circulation system shall require re-evaluation of the cover/grate and sump to ensure that the flow rating of the Suction Outlet Fitting Assembly (SOFA) is not exceeded. Missing, broken, or cracked covers/grates, sumps, mud-frames, or any other SOFA component shall be replaced before bathers are allowed to use the pool. Loose cover/grates shall be reattached before bathers are allowed to use the pool.



▲ WARNING – Risk of Electric Shock. All electrical wiring MUST be in conformance with applicable local codes, regulations, and the National Electric Code (NEC). Hazardous voltage can shock, burn, and cause death or serious property damage. To reduce the risk of electric shock, do NOT use an extension cord to connect unit to electric supply. Provide a properly located electrical receptacle. Before working on any electrical equipment, turn off the power supply to the equipment. To reduce the risk of electric shock replace damaged wiring immediately. Locate conduit to prevent abuse from lawn mowers, hedge trimmers and other equipment. Do NOT ground to a gas supply line.



▲ WARNING – Risk of Electric Shock. Failure to ground all electrical equipment can cause a serious or fatal electrical shock hazard. Electrical ground all electrical equipment before connecting to electrical power supply.



▲ WARNING – Risk of Electric Shock. Failure to bond all electrical equipment to the pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, see installation instructions and consult a professional electrician to bond all electrical equipment. A licensed electrician shall also be consulted for information on local electrical codes for bonding requirements.

Notes to electrician: Use a solid copper conductor, size 8 or larger. Run a continuous wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm²) [No. 6 AWG (13.3 mm²) for Canada] solid copper bonding wire to the pressure wire connector provided on the electrical equipment and to all metal parts of swimming pool, spa, or hot tub, and metal piping (except gas piping), and conduit within 5 ft. (1.5 m) of inside walls of swimming pool, spa, or hot tub. **IMPORTANT** - Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and other general wiring procedures.



▲ WARNING – Risk of Electric Shock. The electrical equipment must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push reset button. Power should be restored. If the GFCI



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fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the electrical equipment without the test button being pushed, a ground current is flowing, indicating the possibility of an electrical shock. Do not use this electrical equipment. Disconnect the electrical equipment and have the problem corrected by a qualified service representative before using.

▲ CAUTION – HAYWARD® pumps are intended for use with permanently-installed pools and may be used with hot tubs and spas if so marked. Do not use with storable pools. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.

▲ WARNING – **Risk of Hyperthermia.** To avoid hyperthermia the following “Safety Rules for Hot Tubs” are recommended by the U.S. Consumer Product Safety Commission.

1. Spa or hot tub water temperatures should never exceed 104°F [40°C]. A temperature of 100°F [38°C] is considered safe for a healthy adult. Special caution is suggested for young children. Prolonged immersion in hot water can induce hyperthermia.
2. Drinking of alcoholic beverages before or during spa or hot tub use can cause drowsiness, which could lead to unconsciousness and subsequently result in drowning.
3. Pregnant women beware! Soaking in water above 100°F [38°C] can cause fetal damage during the first three months of pregnancy (resulting in the birth of a brain-damaged or deformed child). Pregnant women should adhere to the 100°F [38°C] maximum rule.
4. Before entering the spa or hot tub, users should check the water temperature with an accurate thermometer; spa or hot tub thermostats may err in regulating water temperatures by as much as 4°F (2.2°C).
5. Persons taking medications, which induce drowsiness, such as tranquilizers, antihistamines or anticoagulants, should not use spas or hot tubs.
6. If the pool/spa is used for therapy, it should be done with the advice of a physician. Always stir pool/ spa water before entering the pool/spa to mix in any hot surface layer of water that might exceed healthful temperature limits and cause injury. Do not tamper with controls, because scalding can result if safety controls are not in proper working order.
7. Persons with a medical history of heart disease, circulatory problems, diabetes or blood pressure problems should obtain a physician’s advice before using spas or hot tubs.
8. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above normal body temperature of 98.6°F [37°C]. The symptoms of Hyperthermia include: drowsiness, lethargy, dizziness, fainting, and an increase in the internal temperature of the body.

The effects of Hyperthermia include:

1. Unawareness of impending danger.
2. Failure to perceive heat.
3. Failure to recognize the need to leave the spa.
4. Physical inability to exit the spa.
5. Fetal damage in pregnant women.
6. Unconsciousness resulting in danger of drowning.

SAVE THESE INSTRUCTIONS



Specifications

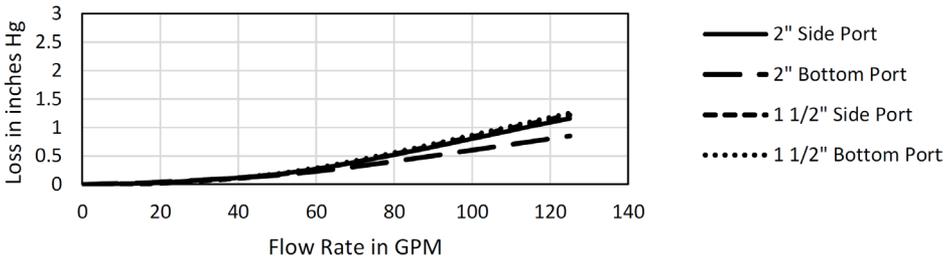
Acceptable Pipe Size for Maximum Recommended System Flow Rate Per ANSI/PHTA/ICC-7 (6 ft/sec in the Branch Line)

Pipe Size in. [mm]	Flow Rate GPM [LPM]	Pipe Size in. [mm]	Flow Rate GPM [LPM]
1-1/2" [50]	38 [144]	2" [75]	63 [240]

The Cover and Sump Combination are Rated at the Following Maximum Allowable Flow Rates	
2" Side Port Floor-Mounted	116 GPM
2" Bottom Port Floor-Mounted	123 GPM
2" Side Port Wall-Mounted	66 GPM
2" Bottom Port Wall-Mounted	59 GPM
1-1/2" Side Port Floor-Mounted	107 GPM
1-1/2" Side Port Wall-Mounted	72 GPM
1-1/2" Bottom Port Floor-Mounted	122 GPM
1-1/2" Bottom Port Wall-Mounted	64 GPM

The Head loss curves were measured in Schedule 40 piping of the size of the sump port, 24 inches from the sump with the cover installed. Piping loss was accounted for on these curves.

Head Loss Curves WG1048E on Sump





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Recommended System Specifications

WG1048E2, WG1048E2GR, WG1048E2DGR and WG1048E2BLK Suction Outlet Covers are rated for the Floor and the Wall per chart 2. The Suction Outlet Fitting assemblies that include the listed covers are considered “Blockable” by the latest APSP-16 standard. In new pools the Suction Outlet Assemblies shall be installed in multiples. In existing pools with a single “Blockable” Suction Outlet Assembly, the flow rating is the flow rating of the Suction Outlet Assembly, only when also installed in conjunction with an additional device or system designed and qualified to ASME 112.19.17 to prevent suction entrapment. A Suction Outlet Assembly in a system that does not also include one of the additional devices or systems shall result in a flow rating of zero. The flow rating for pools with multiple blockable SOFAs in one body of water without isolation valves: combine all SOFAs minus the flow rate of one. If all are not equal, use the largest flow rate.

The flow ratings of the Suction outlet Assemblies are performance based. These flow limits are designed to prevent suction entrapment. No field modifications shall be made to a Suction Outlet fitting structure or flow path.

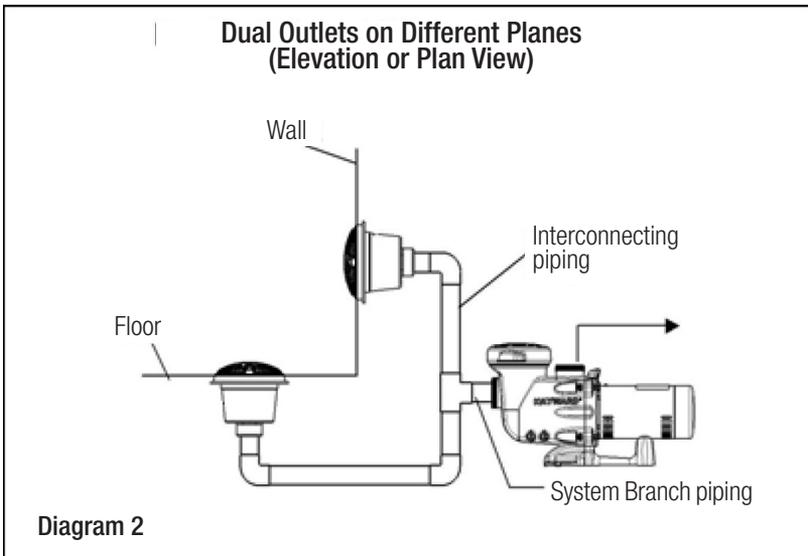
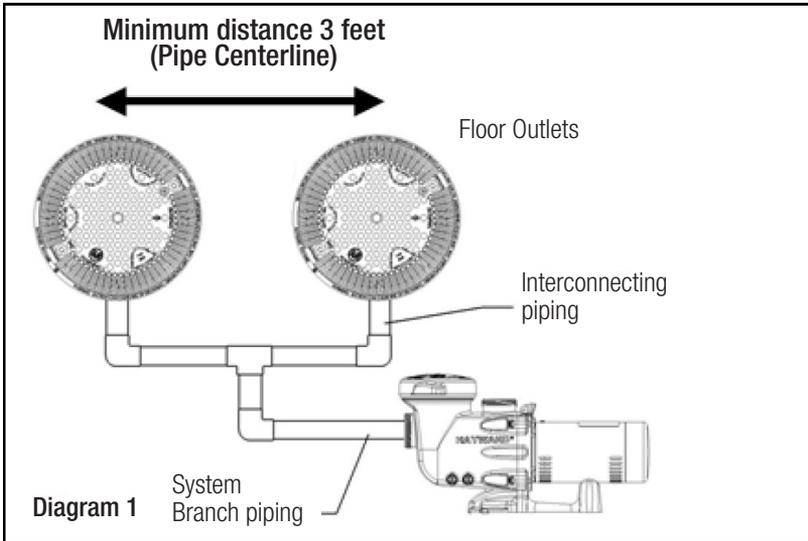
In the event of one suction outlet being blocked, the remaining suction outlets serving that system shall have a flow rating capable of the full flow of the pump(s) for the specific suction system. **Skimmers, gutters, and other outflow systems may not always be operational and could divert all the pump(s) flow through the Suction Outlet Fitting Assembly suction system, therefore the flow capacity of the skimmers, gutters and other outflow systems shall not be included when evaluating an individual suction system flow rating.**

Example 1: In the System shown in Diagram 1 on page 7, two (2) suction outlet covers are selected and mounted on the floor with 2” piping on a WG1049 sump. These covers are individually rated for 122 GPM. The pump is rated at a maximum flow rate of 63 GPM. At the desired flow of 63 GPM, one cover could be partially blocked and the other suction outlet flow would be below the rated 122 GPM of the “Floor” mounted suction outlet cover. Since there are two outlets flowing in normal operation, the same pipe size is recommended in the interconnecting piping.

Example 2: In the System shown in Diagram 2 on page 7, one (1) suction outlet cover mounted in the floor on a WG10154 sump, rated at 123 GPM, and one (1) suction outlet cover mounted on the wall on a WG1154 sump with 2” piping, rated at 59 GPM. For a desired flow rate through the pump of 50 GPM, these are 2” sumps. At the desired flow of 50 GPM either cover could be totally blocked. The other suction outlet flow rate would be below the rated 59 GPM of the wall mounted suction outlet cover. Note: Flow may be limited by entrapping force in dual suction systems.

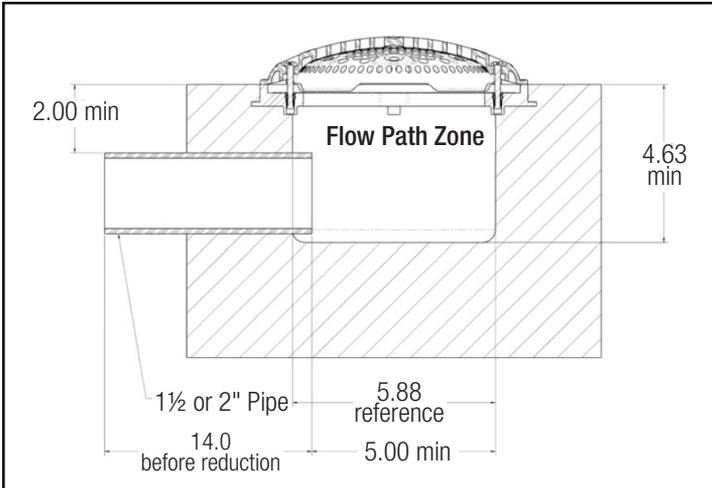


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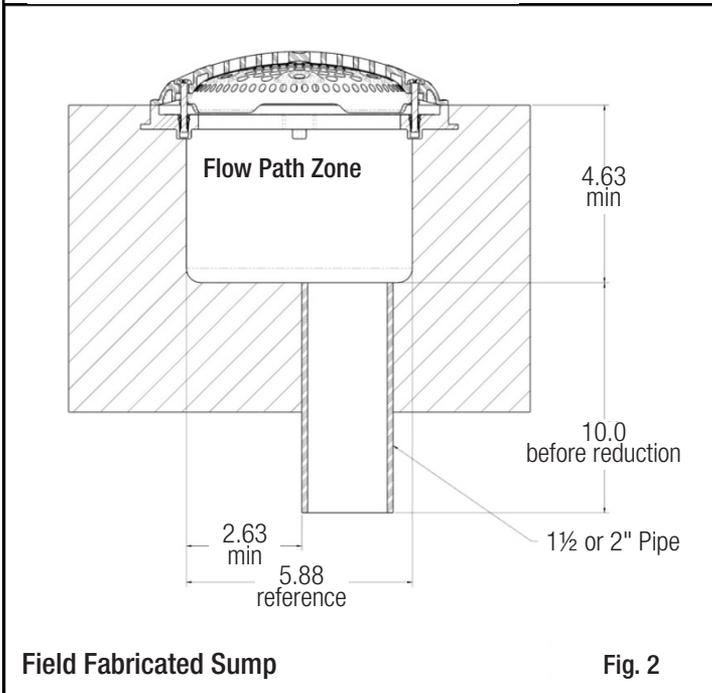


Installation



Field Fabricated Sump

Fig. 1



Field Fabricated Sump

Fig. 2

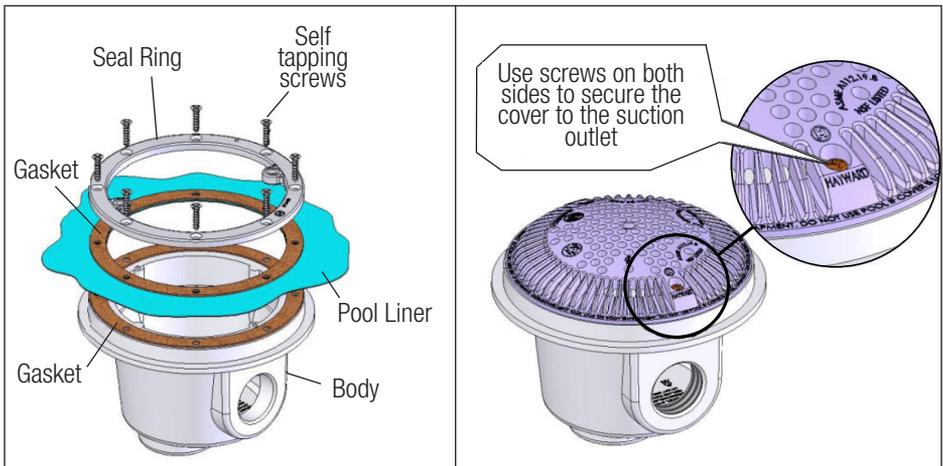


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All SOFA's shall be installed according to these instructions.

NOTE: When installing WG1030AVPAK2 refer to Fig. 1 or Fig. 2 on page 8 for the minimum dimensional requirements for construction of a field fabricated sump to comply with the latest APSP-16 standard. The ring WG1058C must be securely attached to the pool structure, and flat to the pool finished surface. The WG1058C ring has been qualified for 1½" and 2" piping only.

Suction outlets for a pool with a vinyl liner or for fiberglass pools (WG1048AVPAK2 series for 1½" pipe or WG1049AVPAK2 series for 2" pipe) are provided with a WG1048B mounting ring and two (2) gaskets. The gaskets should be placed such that they sandwich the liner or fiberglass, that is, one gasket on each side. The ring (WG1048B) is attached to the suction outlet sump by eight (8) screws that pass through both gaskets and the liner. See diagram below.



Suction outlets components and fastener receptacles must be free of dirt during installation. Use a #2 Philips head Screwdriver. Suction outlets WG1051AVPAK2 series for a concrete or gunite pools are designed to be plastered with the top surface flush to the pool surface. Suction Outlet Fitting Assemblies WG1153AVPAK2 series come with an Adjustable Collar to allow plastering the ring flush to the pool finished surface. Since both the WG1056C ring and the WG1153B Collar are held in place by the interior finish of the pool, the finished surface shall be free of deterioration and voids. Those sumps not using the seal ring MUST use the long WGX1030Z1AM screw.

Two machine screws (WGX1030Z2AM) or (WGX1030Z1AM) MUST be used to secure the cover to the suction outlet fitting. The screws are designed to be started by hand to ensure proper thread engagement and to prevent cross threading. Finish assembling both screws by hand to a torque of 15 in*lb. Check by hand the snugness of the cover to the sump or frame after installation. **DO NOT USE POWER TOOLS TO INSTALL FASTENERS.**

Unauthorized field modifications void the SOFA certification No modifications can be made to SOFA structure/flow without recertifying. If the sump cannot be identified as a Hayward sump, Hayward does not have an approved cover replacement.



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Maintenance

Winterization

Unless the suction outlet fitting is wall mounted and contains a manufactured sump, there is no need to winterize it. For wall mounted suction outlet fittings in areas where the piping is above the freeze line, it is recommended that the cover be removed, an air blower be utilized to remove the water in the line and a plug with an O-ring (SP1022C 1½", SP1022C2BLK 2") be installed to keep the water out of the pipe for the winter.

▲ WARNING – Suction Entrapment Hazard. Failure to remove Winterization plug can create a Suction Entrapment Hazard that can cause severe injury and/or death. To avoid it is important to remove the winterizing plug before swimmers are allowed in the pool.

Fastener/Threaded Insert Repair or Reinstallation

The integrity of the suction outlet fitting assembly relies on having the covers firmly attached to the mating frame or sump. The screws that attach the cover must be inspected for thread damage, and/or corrosion, every time the cover is removed. If there is visible damage to the screws, they must be replaced, by pushing on the end and unscrewing. Please be aware there are two lengths of machine screws, they must be replaced by like screws from Hayward to assure proper attachment of the suction outlet cover.

If the threaded inserts are damaged, or not installed in the sump they shall be removed and replaced through the use of the WG1048EKIT. Full instructions are included with the kit. NOTE: If self tapping screws are securing the suction outlet cover, the sump shall be replaced or modified to use the WG1048EKIT.

▲ WARNING – Suction outlet components have a finite life, the cover/grate and screws should be inspected frequently and replaced at least every seven years, other components should be inspected frequently and replaced at least every 28 years. Components must be replaced if found to be damaged, by change in color, have brittle components with missing pieces, cracked, missing, or have stripped screw holes, not securely attached or no longer integral to the pool interior surface.

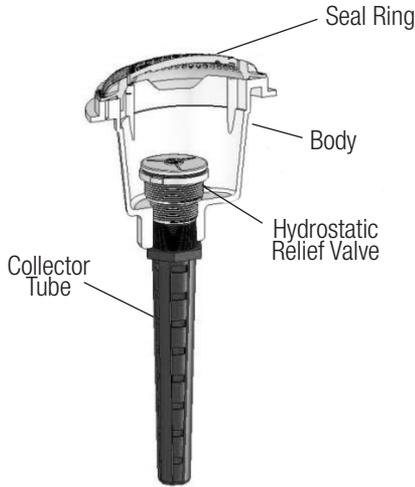
The use of adhesives or other cover/grate attachment methods that prevent access to suction piping or SOFA components requiring servicing is prohibited.

By design and per the latest APSP 16 standard, covers when installed shall not protrude more than 2" from the finished surface of the pool.



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For installations utilizing a hydrostatic relief valve (SP1056), using a collector tube (SP1055) will maintain a clear path to the hydrostatic valve. At least one hydrostatic relief valve in a set of suction outlets will allow hydrostatic uplift pressure caused by ground water to be relieved into the pool or spa.



Operation

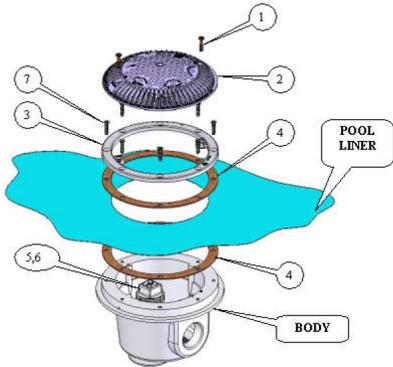
Each operational day the covers, including the fasteners, shall be observed for damage or tampering. During installation of the cover and fasteners the Suction Outlet fitting assembly components, including the fasteners shall be clean and free of debris and/or obstructions.

Replace damaged, broken, cracked, missing, or not securely attached suction outlet components, including fasteners and threaded inserts immediately. Loose cover/grates shall be reattached before bathers are allowed to use the pool.

Since both the WG1056C ring and the WG1153B Collar are held in place by the interior finish of the pool, the finished surface shall be free of deterioration and voids.



Replacement Parts

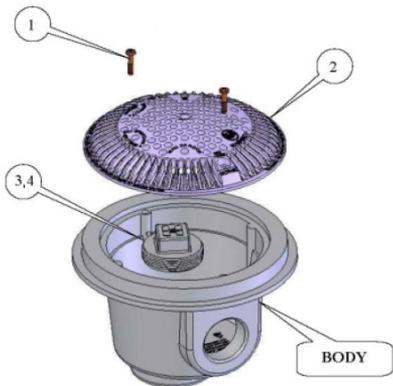


WG1048AVPAK2 / WG1049AVPAK2
 WG1048AVDGRPAK2 / WG1049AVDGRPAK2
 WG1048AVGRPAK2 / WG1049AVGRPAK2
 WG1048AVBLKPAK2 / WG1049AVBLKPAK2

Item	Spare Part	Description	Qty.
1	WGX1030Z2AM	MACHINE SCREW SET 15/16" LG	1
2	*WGX1048E *WGX1048EDGR *WGX1048EGR *WGX1048EBLK	WHITE COVER DARK GRAY COVER GRAY COVER BLACK COVER	1
3	WGX1048B WGX1048BDGR WGX1048BGR WGX1048BBLK	WHITE RING DARK GRAY RING GRAY RING BLACK RING	1
4	SPX1048D	GASKET	2
5	SPX1051Z1	1 1/2 IN PLASTIC PIPE PLUG	1
6	SPX1053Z1	2 IN PLASTIC PIPE PLUG	1
7	SPX1039Z18	SCREW SET	1

NOTES: All color variations of WG1048AVPAK2 / WG1049AVPAK2 have 1 1/2" NPT Plug for the bottom port.

*-SPARE COVER INCLUDES SCREWS FOR ALL VARIATIONS OF SUMPS, WITH METAL INSERTS. For rings (WG1048B) without metal inserts it is required that the rings be replaced to provide proper cover attachment utilizing new machine screws during cover replacement.



WG1051AVPAK2 / WG1052AVPAK2
 WG1053AVPAK2 / WG1054AVPAK2

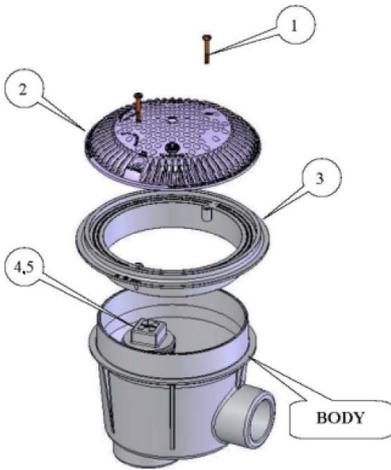
Item	Spare Part	Description	Qty.
1	WGX1030Z1AM	MACHINE SCREW SET 1 1/4"	1
2	*WGX1048E *WGX1048EDGR *WGX1048EGR *WGX1048EBLK	WHITE COVER DARK GRAY COVER GRAY COVER BLACK COVER	1
3	SPX1051Z1	1 1/2 IN PLASTIC PIPE PLUG	1
4	SPX1053Z1	2 IN PLASTIC PIPE PLUG	1

NOTES: WG1051AVPAK2 / WG1052AVPAK2 have 1 1/2" NPT Plug
 WG1053AVPAK2 / WG1054AVPAK2 have 2" NPT Plug

*-SPARE COVER INCLUDES SCREWS FOR ALL VARIATIONS OF SUMPS, WITH METAL INSERTS. For sumps without metal inserts it is required that inserts be installed, following the instructions in the WG1048EKIT. This should provide proper cover attachment utilizing new machine screws during cover replacement.



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WG1048AVPAK2 / WG1049AVPAK2
 WG1048AVDGRPAC2 / WG1049AVDGRPAC2
 WG1048AVGRPAC2 / WG1049AVGRPAC2
 WG1048AVBLKPAK2 / WG1049AVBLKPAK2

Item	Spare Part	Description	Qty.
1	WGX1030Z1AM	MACHINE SCREW SET 1 1/4"	1
2	*WGX1048E *WGX1048EDGR *WGX1048EGR *WGX1048EBLK	WHITE COVER DARK GRAY COVER GRAY COVER BLACK COVER	1
3	WGX1153B WGX1153BDGR WGX1153BGR WGX1153BBLK	WHITE COLLAR DARK GRAY COLLAR GRAY COLLAR BLACK COLLAR	1
4	SPX1051Z1	1 1/2 IN PLASTIC PIPE PLUG	1
5	SPX1053Z1	2 IN PLASTIC PIPE PLUG	1

NOTES: WG1153AVPAK2 / WG1154AVPAK2 have 2" NPT Plug
 WG1154SxxPAK2 has a 2" pipe socket as well as 2" NPT Plug

*-SPARE COVER INCLUDES SCREWS FOR ALL VARIATIONS OF SUMPS, WITH METAL INSERTS. For Collars without metal inserts it is required that inserts be installed, following the instructions in the WG1048EKIT, or the ring replaced. This should provide proper cover attachment utilizing new machine screws during cover replacement.

Since the WG1153B Collar is held in place by the interior finish of the pool, the finished surface shall be free of deterioration and voids.



WG1030AVPAK2 / WG1030AVDGRPAC2
 WG1030AVGRPAC2 / WG1030AVBLKPAK2

Item	Spare Part	Description	Qty.
1	WGX1030Z1AM	MACHINE SCREW SET 1 1/4"	1
2	*WGX1048E *WGX1048EDGR *WGX1048EGR *WGX1048EBLK	WHITE COVER DARK GRAY COVER GRAY COVER BLACK COVER	1

NOTES:

*-SPARE COVER INCLUDES SCREWS FOR ALL VARIATIONS OF SUMPS, WITH OR WITHOUT METAL INSERTS. For round frames without metal inserts it is required that inserts be installed, following the instructions in the WG1048EKIT or the ring replaced. This should provide proper cover attachment utilizing new machine screws during cover replacement.

Since the WG1058C frame is held in place by the interior finish of the pool, the finished surface shall be free of deterioration and voids.



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HAYWARD® Pool Products Limited Warranty

Hayward Pool Products, Inc., warrants the components of this product to be free from defects in materials and workmanship during the warranty period. Please visit <https://hayward.com/support/resources/warranty> for product warranty details.

The limited warranty excludes damage from freezing, negligence, improper installation, improper use or care, Acts of God or as specified in installation and operations manual. Parts that fail or become defective during the warranty period shall be repaired or replaced, at our option.

Proof of purchase is required for warranty service. In the event proof of purchase is not available, the manufacturing date of the product will be the sole determination of the purchase date.

To obtain warranty service, please contact the place of purchase or the nearest Hayward Authorized Service Center. For assistance on your nearest Hayward Authorized Service Center, please visit us at <https://hayward.com/dealerlocator>.

Hayward shall not be responsible for cartage, removal, repair or installation labor or any other such costs incurred in obtaining warranty replacements or repair.

The Hayward Pool products warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

The express limited warranty above constitutes the entire warranty of Hayward Pool Products with respect to its pool products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Hayward Pool products be responsible for any consequential, special or incidental damages of any nature.

Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Hayward Industries, 1415 Vantage Park Dr., Suite 400, Charlotte, NC 28203

***Supersedes all previous publications**

Register your product at <https://hayward.com/support/resources/warranty/product-registration>

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technical support, visit our website at
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