

POOL & SPA SUCTION FITTINGS

Installation and Operation Manual



⚠ WARNING

Read and follow all instructions in this Instruction manual and on the equipment. Failure to follow instructions may cause severe injury and/or death and will void any product warranty/liability.

This equipment must be installed and serviced by a qualified technician. Improper installation may result in property damage, serious injury or death. Improper installation and/or operation will void the warranty.

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IMPORTANT SAFETY INSTRUCTIONS

WARNING – Suction Entrapment Hazard.

Suction outlets and/or suction outlet covers which are damaged, broken, cracked, missing, or unsecured can cause severe injury or death due to the following entrapment hazards:



Hair Entrapment

Hair becomes knotted or snagged in an outlet cover.



Limb Entrapment

A limb sucked or inserted into an opening of a circulation outlet with a broken or missing cover in the pool resulting in a mechanical bind or swelling.



Body Suction Entrapment

Suction applied to a large portion of the body or limbs resulting in an entrapment.



Evisceration/Disembowelment Entrapment

Suction applied directly to the intestines through an unprotected sump or suction outlet with a missing or broken cover.

Mechanical Entrapment

Potential for jewellery, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of an outlet or cover.

SUCTION POINTS (Outlet Systems)

General

- Suction points (outlet systems) shall be installed so that each system has a means of releasing the vacuum pressure on a suction point (outlet) should it become blocked.
- Where there are suction points (outlets) of different design, the system flow rate shall be based upon the lowest rated cover. No cover shall be subjected to greater flow than its marked rate.
- Vacuum release devices shall not be used as a substitute for any of the requirements set out in this operating instruction or any requirements under Australian Standards AS 1926.3 (2010).

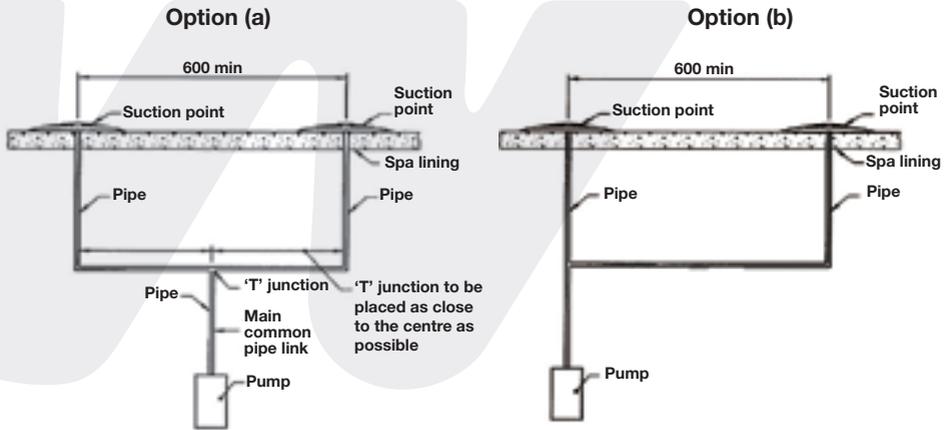
Note: Vacuum release devices that are designed to open to atmosphere and/or shut off the pump in the event of a blockage may be used as a further layer of protection.

Single Suction Points (Outlet)

- A single suction point (outlet) installation is acceptable provided that it is connected to a skimmer box or an alternative skimming system.

Dual Suction Point (Outlet) Systems

- Each pump shall be connected to at least two suction points (outlets) by a common line with at least two branch lines.
- The diameter of branch pipes shall be equal and shall not be less than the pipe diameter marked on the suction point (outlet) covers.
- Pipes shall not incorporate any devices that may restrict their diameter.
- Connected suction points (outlets) shall not be less than 600mm apart where possible, centre to centre, and where not possible a minimum of 3 suction points (outlets) is required.
- The system flow rate shall not exceed the suction point (outlet) cover flow rate of a single suction point (outlet) cover.



- I. Option (a) has pipe “T” junction as close to the centre of both suction points, this is the acceptable configuration.
- II. The pipe used in this configuration shall be of the same internal diameter throughout.
- III. Option (b) is an unacceptable pipe plumbing option as the “T” junction is not close to the centre of both suction points.

Multiple Suction Point (Outlets)

Each multiple suction point (outlet) system shall comply with the following:

- Suction point (outlet) systems requiring flow rates in excess of that available using dual suction point (outlets) shall add additional suction points (outlets) such that the total system flow rate shall not exceed 50% of the sum of the flow rates of the suction points (outlets) covers used.
- Installation provisions of Dual Suction Point (Outlet) Systems apply.
- The dimension Dual Suction Point (Outlet) Systems applies to the widest spaced suction point (outlets) covers except that no suction point (outlets) cover shall be installed less than 300mm from an adjoining suction point (outlets) cover.

SUCTION POINT (outlet) INSTALLATION INSTRUCTIONS

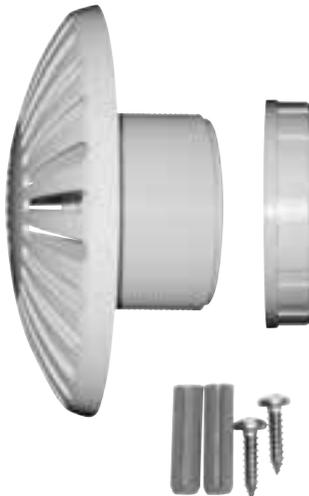
Water Pool & Spa suction points (outlets) are available in several variation that enable installation to fibreglass, vinyl liner & concrete constructed pool & spas, with options for 40mm or 50mm, slip fit or threaded connections.

Concrete Pool (Slip Fit) Connection (40mm or 50mm Pipe)



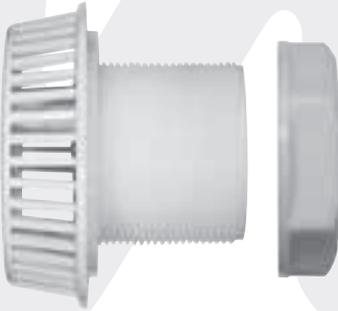
- Required installation opening, (40mm pipe = 49mm) & (50mm pipe = 61mm).
- Cut 40mm or 50mm pipe to length and push suction point onto pipe end and flush with pool wall surface, no gluing is required.
- Suction point must be fastened to the pool wall using the two self taper screws and wall plugs supplied with the point (outlet).

Fibreglass or Vinyl Liner Pool (lock Nut) Connection (40mm or 50mm Pipe)



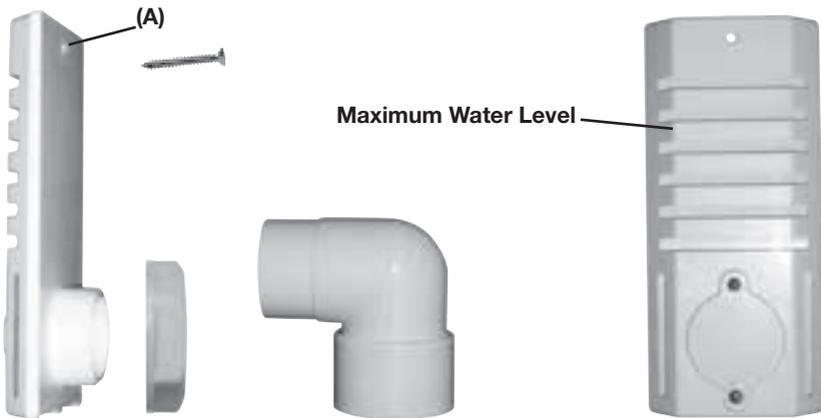
- Required installation opening, (40mm pipe = 49mm) & (50mm pipe = 61mm).
- Cut 40mm or 50mm suction pipe to length. Place suction point locking nut over the pipe with open thread facing outward to the fitting. Push the suction point onto pipe end, screwing the suction point locking nut onto the fitting threaded section tightening sufficiently to retain flush to the pool surface wall.
- Additionally, the suction point must be fastened to the pool wall using the two self taper screws and wall plugs supplied with the point (outlet).

Fibreglass Spa (lock Nut) Connection (40mm or 50mm Pipe)



- Required installation opening, (40mm pipe = 49mm) & (50mm pipe = 61mm).
- Cut 40mm or 50mm suction pipe to length. Place suction point locking nut over the pipe with open thread facing outward to the fitting. Push the suction point onto pipe end, screwing the suction point locking nut onto the fitting threaded section tightening sufficiently to retain flush to the spa surface wall.

Skimmer Spa (Lock Nut) Connection (40mm Pipe)



- Required installation opening, (40mm pipe = 49mm).
- Cut 40mm suction pipe to length. If required glue 90° pipe elbow fitting to suction pipe. Place suction point locking nut over the pipe with open thread facing outward to the fitting. Push the suction point onto pipe end, screwing the suction point locking nut onto the fitting threaded section tightening sufficiently to retain flush to the spa surface wall.
- Suction Skimmer point must be fastened to the pool wall using self taper screw (A) supplied with the point (outlet).

Note: The Waterco Skimmer Suction Point has a recommended maximum water level; it is a requirement to ensure the spa water level is maintained to this level to ensure correct operation of the suction point.

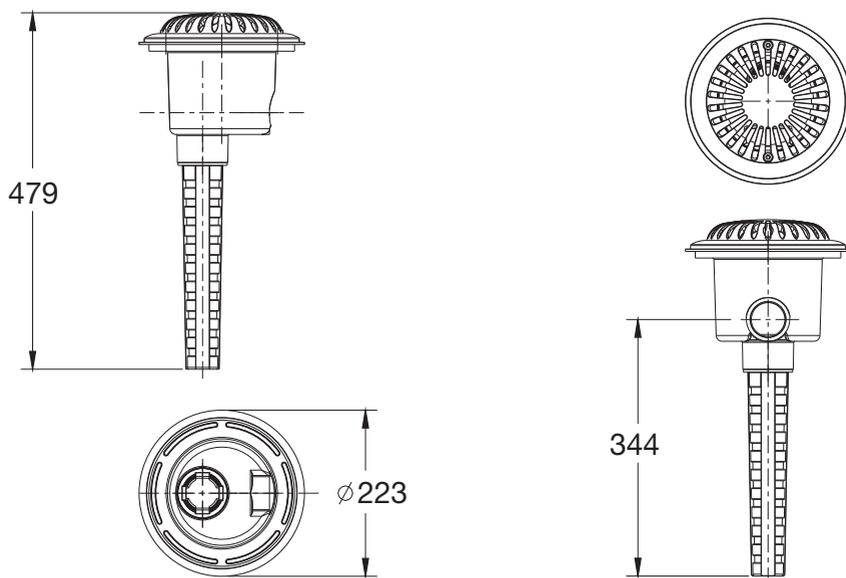
Main Drain

The Waterco Main Drain can be installed into any swimming pool construction e.g. concrete or fibreglass. The Waterco Main Drain is tested and approved under to Australian standard: AS1926.3.

This enables the Waterco Main Drain to be installed into a pool and also be connected to the pools main skimmer devise via a 40mm connection pipe.

Alternatively, the Waterco Main Drain can be installed into a pool and act as a hydrostatic valve, only. Without any additional connection to a skimmer devise.

Note: All Main Drain installations must comply with local Swimming Pool and Spa construction regulations. To this, it is recommended that these regulations are reviewed prior to installation.



AUSTRALIAN STANDARDS

This manual is supplied with all Waterco Pool & Spa Suction Fittings that are tested and comply with Australian standard: AS1926.3.

WARRANTY

The suction point (outlet) is covered by a 1 year domestic and commercial warranty and 1 year warranty on labour. Please refer to Waterco's warranty terms and conditions.

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