Zenith Aqua Sense Taps

Zenith Automatic Taps - Deck and Wall Models.

AquaSense taps are suitable for use in Ablution troughs; Basins and Kitchen sinks

Note: Surgeon models have a 20 second run-on after use.

Wall installation model

Deck installation model

High Neck model

Affix Model Number Label Here
81424NZ

zenith
instant boiling water

Contents

NOTE:

It is the installers responsibility to ensure the installation complies with AS/NZS3500.1, AS/NZS3500.2, AS/NZS3500.4.1, AS/NZS3500.4.2 and local water authority regulations.

General Fitting Instructions.

1. Preparation

You must read these instructions thoroughly before attempting to install this tap. First check the solenoid valve supplied is suitable for the site water pressure and conditions. The standard valve requires 50kPa - 800kPa water pressure and 5º - 55º C water temperature. If your water pressure is outside the stated range please contact the manufacturer.

2. Pre-Fitting

First turn off the water supply. If possible select an upright position for the valve. (As shown in diagrams) check correct water flow direction when installing solenoid valve. Ensure there is sufficient room to fit the tap head assembly and enough clearance for the 1" spigot and locating peg to fit without interference. Fitting an isolation valve, in-line filter, double check valve, prior to the solenoid valve is mandatory.

3. Installation

Cut the pipework with tube cutters, remove sharp edges and burrs. Purge pipe work to remove all loose debris. Fit filter, isolation valve, double check valve and solenoid valve. Check all plumbing joints are secure. Take care not to over-tighten any joints. Now fit the sensor tap faucet to the required position in the worktop, sink or wall. The sensing distance for standard wall mounted tap is 150mm or 200mm for the surgeon's model. To prevent any nuisance sensing, keep a 100mm distance from sink base to Sensing Range lowest point (see fig.1 and fig.2). Secure the faucet with the nut and clamps provided.

Important installation details for wall mount taps to avoid reflection problems.

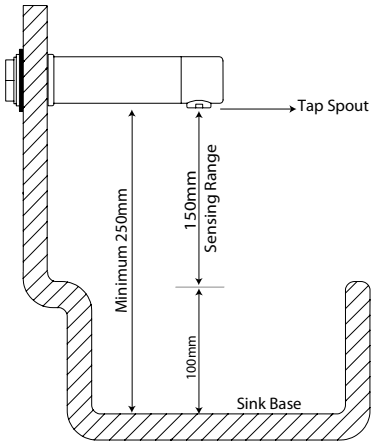


Fig.1 Standard Model

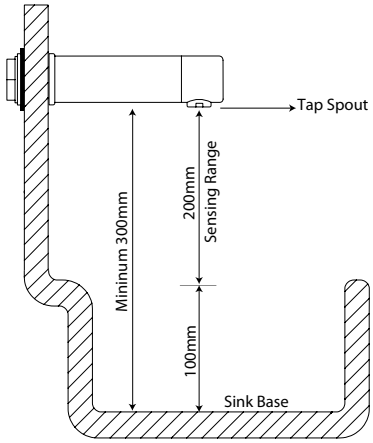


Fig.2 Surgeon Model

Important: where ever possible you must use the base fixing pins supplied with the faucet.

Ensure the flow restrictor in the tap outlet is adequately secured to prevent removal by hand. Firmly secure the flexible water supply hose from the faucet to the solenoid valve and turn on the water supply and check for leaks.

4. Plug and Socket Connections

CAUTION: Mount the battery box / Transformer with care, position where the risk of damage or moisture intrusion is minimal. Ensure the battery pack or powersupply is left disconnected at this stage, all cable sockets and plug connections are clean and dry. Then connect firmly and ensure that the plug and sockets are secured with the barrel nuts on the fittings.

5. Final Test.

Connect the battery pack or power supply unit. The sensor should now activate the solenoid when your hands are placed under the sensing area.

Components

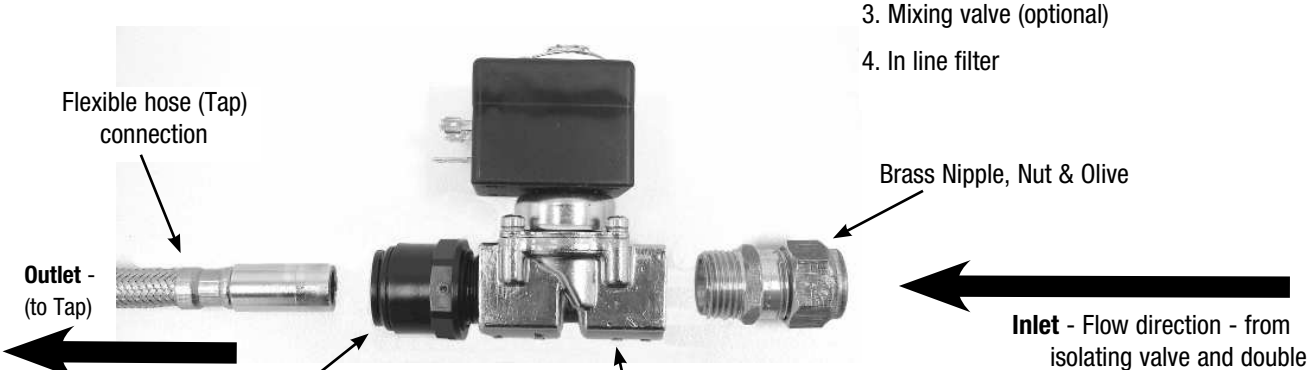
AC Power supply

SUPPLIED:

1. Wall or Deck mounted Tap with fixing nut and washers.
2. AC or DC Power supply
3. 6 V DC Latching Valve
4. Brass Nipple Nut and Olive
5. JG 15mm X 1/2 BSP adapter
6. Connection Cables

NOT SUPPLIED:

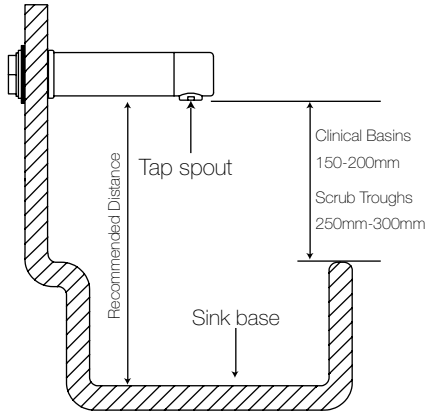
1. Isolation valve
2. Double check valve.
3. Mixing valve (optional)
4. In line filter



Installation Details

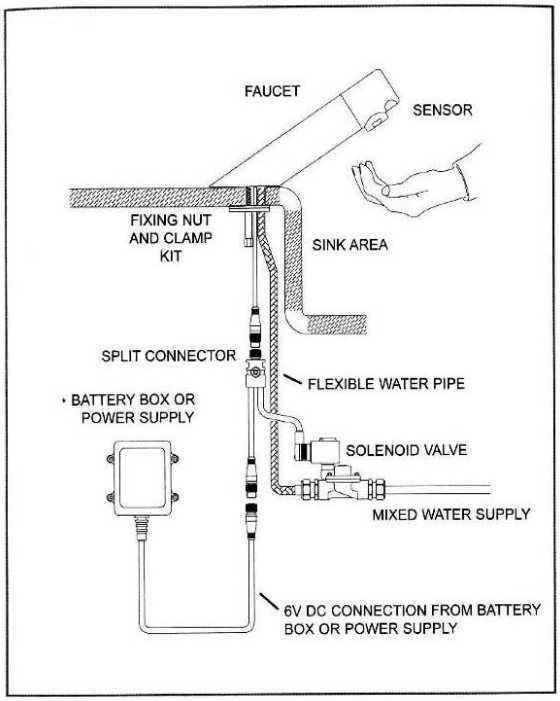
Wall installation detail

Important installation details for wall mount taps to avoid reflection problems.

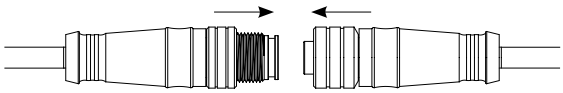


The minimum recommended distance from the tap spout to the sink base is normally 250mm for basins or 300mm for troughs.
This will be greater if there is excessive reflection which can be caused by bright surfaces such as chromed wastes and/or bright lights mounted above the basins

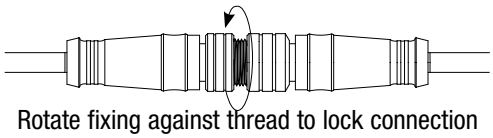
Deck installation detail



Installation details



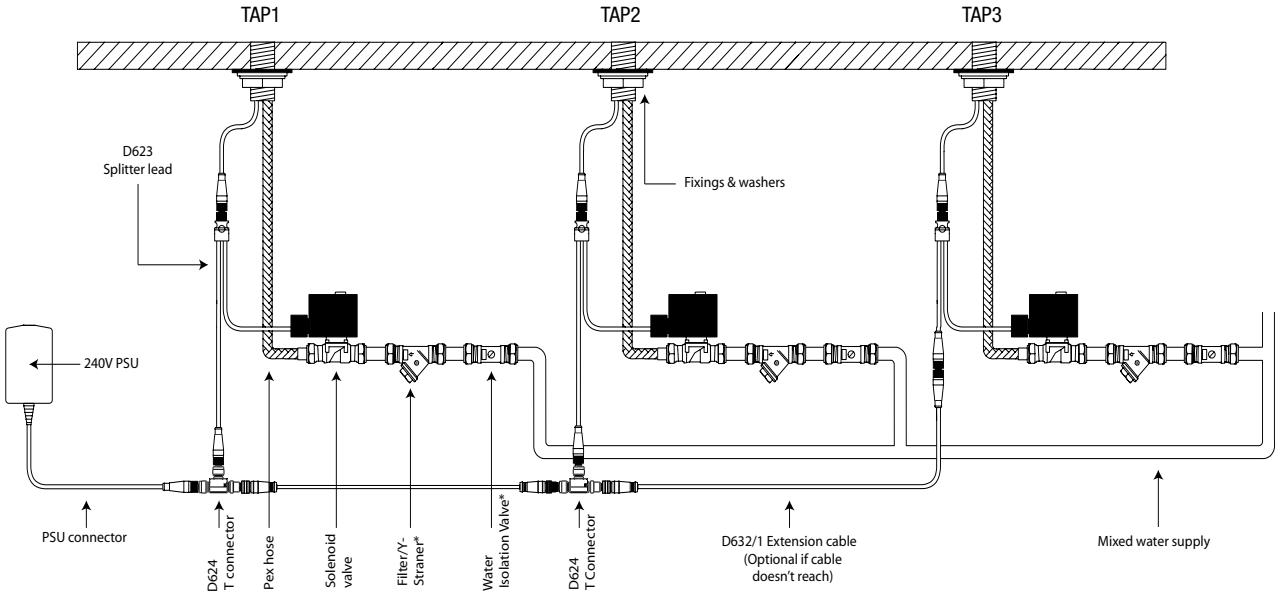
Push together



Rotate fixing against thread to lock connection

Multi / AC mains Installation

NOTE: You must only use the Zip power supply unit. The use of an alternative unit may cause damage.



Installation details

Power specifications:

Input: 220 - 240 V AC

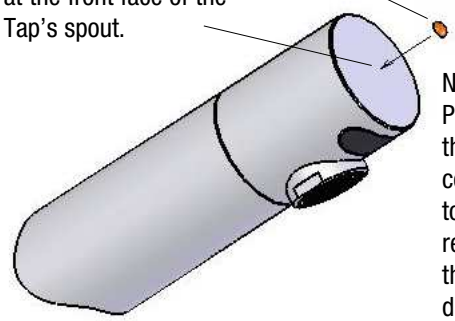
Current: 0.3 A

Freq.: 50 - 60 Hz.

Output: 6 V DC

Instructions for Attaching Colour Coded Sticker on AquaSense Tap

Attach Colour Coded Temperature Sticker at the front face of the Tap's spout.



NOTE:
Plumber must attach the appropriate colour coded sticker compliant to local Water Regulatory requirements to indicate the water temperature dispensed by the Tap.

Trouble Shooting

Fault	Remedy
Tap will not operate	Check electrical connections, Check fuses (mains models only), Check for input voltage (6VDC), Check / Clean all connections, Check for cable damage, Dis-connect power supply and re-connect after 30 seconds, Check water is on and flowing, Check solenoid valve is fitted correctly, Check valve for operation, Check for debris in valve, Water pressure is too low / high check pressure reading.
Tap operates in reverse. (Runs when hands are not present)	Reversed valve polarity (Contact manufacturer)
Tap operates intermittently	Clean sensor lens with non-abrasive material only, Tap may be installed too close to a R.F. interference source, Tap may be installed too close to very bright lighting or highly reflective surroundings, Water pressure may be too low for valve to operate reliably (min 50kPa required), Voltage too low check output supply (power supply unit or battery, Lithium only)

Maintenance

Valve Diaphragm Replacement:

Isolate power and water supply.

Remove fixing clip on top of latching valve coil by levering up clip with screw driver and clicking back until clip releases from shaft.

Lift coil, spring clip and spacer from latching valve shaft.

Carefully undo the 4 screws retaining the valve housing. When the last screw is about to be released, grip the valve body and top section as it is spring loaded.

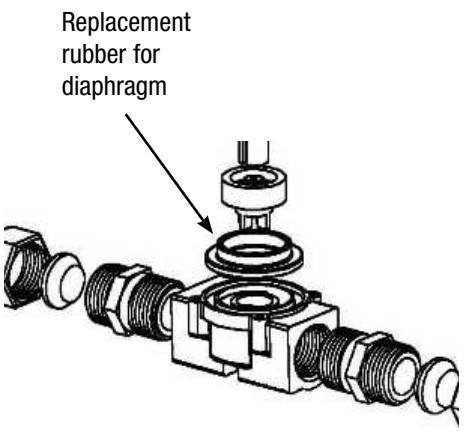
Carefully separate the top section containing the spring and plungers from the lower body. The diaphragm should now be visible. Lift it out of position.

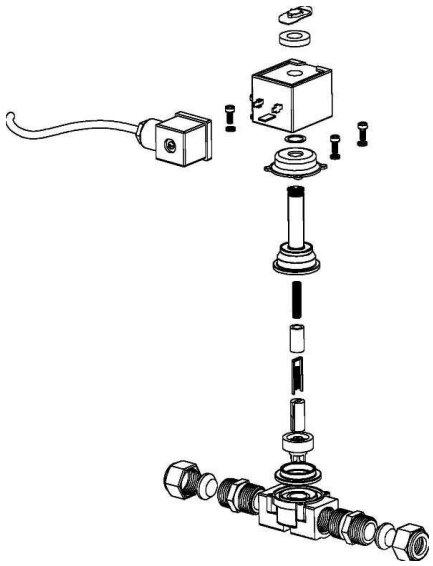
Remove the centre plastic piece from the rubber diaphram. Fit the new diaphram to the plastic centre. Replace it in the same orientation.

Re-assemble in the reverse of above. Note the position of all parts in the diaphragm for correct assembly. To order quote Zenith part number 90279NZ Diaphram Kit.

The valve will require periodic cleaning and servicing. please contact Zenith for servicing.

For general cleaning do not use abrasive cleaners or materials, only use soap and water or non-abrasive cleaners.





Maintenance

Wall mounted units can be serviced by removing either of the grub screws from underneath the spout. In this way either the sensing head and/or the main body, can be removed without interfering with the wall mounted spigot. This preserves the integrity of the wall cladding (eg. Tiles / Splashbacks)

2mm Allen key for grub screws

250mm Surgeons model

Wall spigot with O-ring seal

End of Life Disposal

In order to help preserve our environment we ask that you dispose of this product correctly. Please contact your local city council for collection centre details

Contact details

Head Office

Zenith Heaters Limited,
IRD No. 95 640 729
Unit 2/15 Moselle Avenue,
Henderson.
Auckland. 0610
New Zealand.

www.zenithheaters.co.nz

Telephone: 0800 558055
Facsimile: 0800 559055

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