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How To

Fit a Pump in a Sand Spear Installation

Our Method makes it easier to Install and Remove Your Pump



The Issues Are?

1: What is the best method of Installation

2: Most Sandspears bores are 50mm Id

3: You cannot fit a submersible pump





Two Methods to use



To Pump su

1: Connect the top of the casing directly to the suction inlet of the pump





Method 2

Highly Recommended

The top of the casing is open The suction line from the pump is separate and fits inside the rising main with non-return at the bottom



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Third method

If no power is available, you can use a hand pump or a 12 volt Submersible pump

See more below





Look at Method 1 -

Pump Suction is connected to rising main. Rising main or casing is connected to the screen,

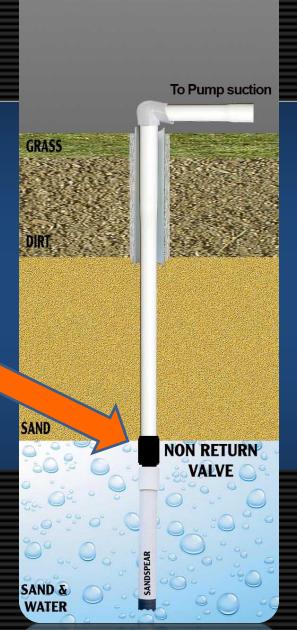




ON RETUR

Non return Valve is connected to top of screen

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WAIEK

SAND SPEAR INSTALLATION



Method 1 – Must Insure

1- All joints must be airtight.To ensure this glue each joint







Method 1 – Must Insure

2- Any small air leeks will not allow the pump to keep prime, and will stop pumping

Delivering Sand Spear Solutions

NON RETUR

Method 1 – Must Insure

3- Rising main or casing should be of similar size as pump inlet.



1- The pump must prime itself every time, not reliable.

Unless a non return Valve is fitted onto screen Or casing





2- The rising main is a lot larger than the pump inlet



3- If a foot valve is fitted, how can you clean it, if it leaks?

This will cause the pump Not to be primed.

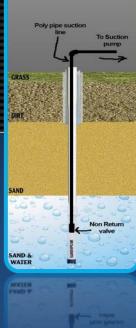


When sand builds up in the foot valve or non return valve seat and is leaking, it is difficult to fix, as you have to pull out the Sandspear system, fix and reinstall, a very long process.



Highly Recommended

1: The top of the casing is open The suction line from the pump is separate and fits inside the rising main with non-return at the bottom



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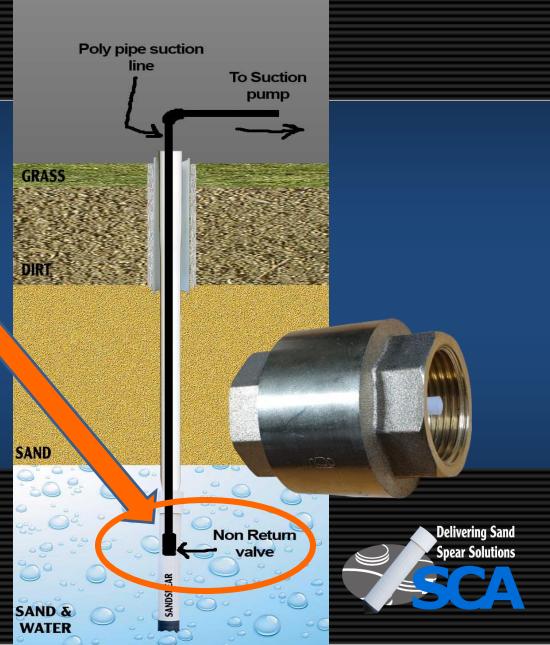


The Foot valve being under the water table, always allows the pump to be primed

This means, when you turn on the pump, water is available to use immediately

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SAND SPEAR WASHDOWN INSTALLATION



Positive Aspects

1: Installation time is much quicker And the system is more efficient in pumping





Positive Aspects

2: As there are less joints , the possibility of having a bad joint or air leek is minimized.





Positive Aspects

1: If sand builds up in the foot valve or non return valve seat and is leaking, it is easy to fix by pulling up the suction line, cleaned, tested and reinstalled in no time at all.





Suction Pump –

Std. Household Pump 240V (with or without pressure switch)

³⁄₄" to ! ¹⁄₄" suction inlet







Poly Male End Connector –

Bsp male thread to fit pump outlet

Female end to fit poly pipe being used





Suction line –

Standard poly line pipe

20 -32mm dia. Is used, size depends on pump suction size





Non return valve or foot valve -

³/₄" or 1" Brass Non return valve

Ensure poly fitting fits inside of casing and thread is the same size as each other



Make sure valve is facing in the correct direction



Other Pumping Methods

If no pump is available, you can use a hand pump

E.g. On the beach camping

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Top Shi and Aquitez Organic Clay



Other Pumping Methods

If 240 volt is not available, you can use a 12 volt submersible pump

E.g. On the beach camping





Solution 2 - Ensure

1: The pump is always primed

2: There are no leaks or holes in the suction line Pumping system

3: Use thread tape or sealer on all threaded joints to ensure all Joints are airtight



Solution 2 - Advantages

1: The pump is always primed

2: Easy Installation and removal

3: Non return valve easily removed and cleaned





Solution 2 - Advantages

4: The suction line pipe diameter is more aligned with the pump suction inlet size, making it more efficient.

5: Easy access to the screen if it needs cleaning, developing or removal.





Conclusion

There are always more than one solution, Solution 2 here has been proved by my clients to be the most successful and easier to install





Conclusion



Any standard household pump can be used. A hand pump can be used.

For the size of the pump or quantity of water needed, a pump test may be needed.





With Thanks

I hope this has been valuable and useful in helping you set up your sand spear system

If you have any more questions or need any more information, please go to our website





We are here to help

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