

## OC-1 FILTRATION MEDIA

### How to change an existing side mount sand filter to OC-1.

1. Turn off any heating and/or chemical dosing systems.
2. Turn off the circulation pump and isolate the filter & pump.
3. Move the multiport valve to the **CLOSED** position.
4. Open the lid of the filter.
5. Open the lower drain port on the filter to remove the water from the tank, this will make it easier to remove the existing media.
6. Once the filter is drained remove the top diffuser and scoop out all the existing media.
7. Once all the media is removed wash out the vessel using a hose and brush (this is very important in order to avoid a cloud of very fine debris returning to the pool upon recommissioning of the filter).
8. Close the drain port.
9. Modify the bottom laterals (see separate instruction sheet on following pages).
10. Fit the new special top diffuser unit to the top pipe assembly (in place of the original diffuser).
11. Fill the filter with OC-1 Media to roughly the same level as the old media.
12. Refit the lid.
13. Open/close the valves needed to return the system to operation mode.
14. Move the multiport valve to the **RINSE** position.
15. Turn on the pump and rinse to waste for 2 minutes whilst bleeding the air from the filter.
16. Turn off the pump and move the multiport valve to the **FILTER** position.
17. Turn on the pump and continue to bleed the air from the filter as required.
18. You may notice that some of the media is floating. This is completely normal and it may take several days for all the media to sink.
19. Continue to vent periodically during these first days as required.
20. Follow your normal backwashing regime. However, we recommend that backwashing takes place at least once a month. For best result backwash until the sight glass runs clear then **RINSE** until the sight glass again runs clear.
21. Your OC-1 Media is now working.

**Please note:** *If you are backwashing less frequently than when using sand please ensure that the TDS and Cyanuric Acid levels remain within the recommended parameters.*

## OC-1 FILTRATION MEDIA

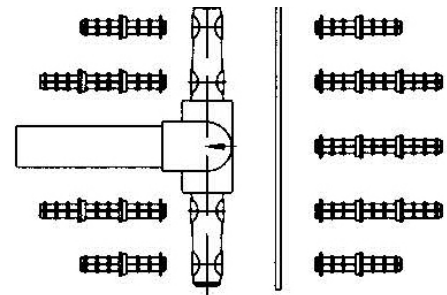
### Achieving optimum flow through laterals with OC-1 Media

**TOOLS REQUIRED:** You will require a 8mm drill bit and a drill.

**STEP 1:** To achieve optimum flow, you need to work out how many holes you need to drill in each lateral, including one hole in the end cap. To do this, use the following calculation:

<b>Total Flow Rate Of The Filter</b> (Litres per hour)	$\div$	<b>200</b> (Litres)	$=$	<b>Total Number Of Holes For Entire Filter</b>	$\div$	<b>Total Number Of Laterals</b>
<p><b>EXAMPLE:</b> 12,800 litres per hour <math>\div</math> 200 = 64 <math>\div</math> 8 =  <b>8 holes to be drilled per lateral</b></p>						

**NOTE:** In the event that you have a filter with a rake type lateral arrangement with different length laterals (see *fig. 1*), the same number of holes are required. Simply distribute the holes evenly across the lateral set with more holes in longer laterals and less in shorter laterals.



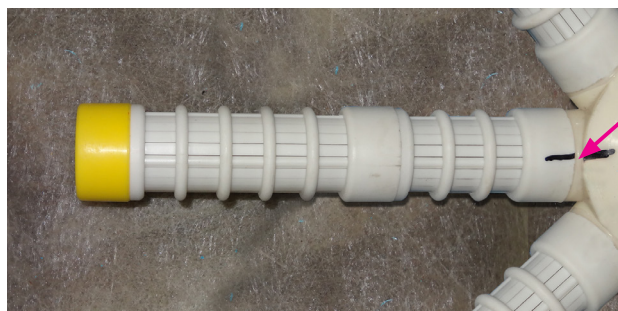
*fig. 1*

**STEP 2:** Remove all sand from the filter.

**IMPORTANT:** *Work on one lateral at a time only to ensure you re-fit the correct lateral*

**STEP 3:** On the lateral you are working on, make sure it is screwed up tight against the lateral assembly.

**STEP 4:** Using a marker pen / tippex / blade etc. make a mark on top of the lateral and a corresponding mark on the lateral assembly to show the top of the lateral and its location when refitting it later.



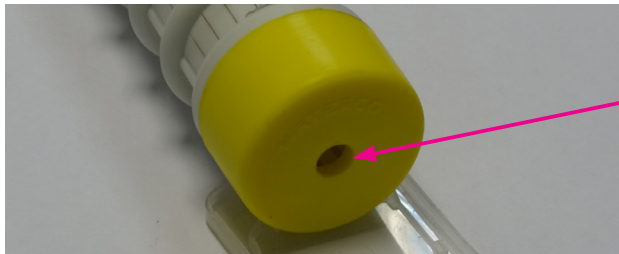
Make a mark on the lateral and lateral assembly as shown.

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### Achieving optimum flow through laterals with OC-1 Media

**STEP 5:** Unscrew the lateral and remove it from the filter.

**STEP 6:** You should have worked out how many holes need to be drilled on each lateral. The first hole **MUST BE** drilled in the end cap of the lateral, then the remaining number of holes are to be drilled through the bottom of the lateral, equidistant apart. (The bottom of the lateral will be opposite to where the mark is shown on the lateral).



**IMPORTANT:**  
Drill one hole  
in the end cap  
first.



Drill through the  
opposite side  
to the one that is  
marked.

**STEP 7:** Using the 8mm drill bit, begin drilling each hole equidistant apart.

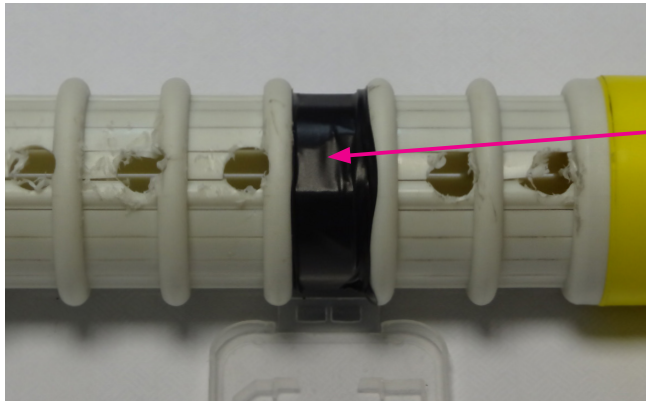


**IMPORTANT:** Only penetrate one side of the lateral when drilling a hole.

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### Achieving optimum flow through laterals with OC-1 Media

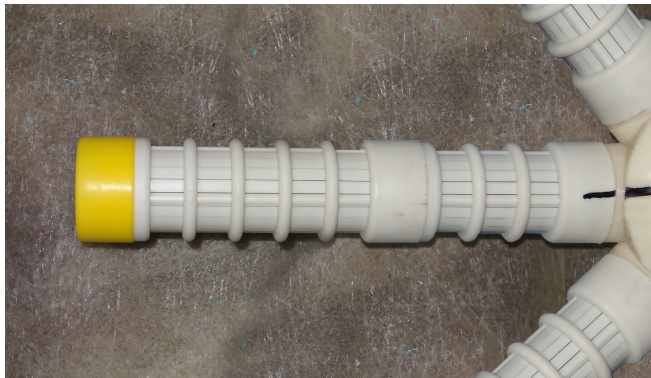
**IMPORTANT:** *If more than one lateral divider is drilled, and there is chance that media can escape, tape that hole up.*



*Tape up a lateral divider with tape to ensure the OC-1 Media doesn't escape.*

**STEP 8:** Once all holes are drilled in the lateral, replace it back inside the filter.

**STEP 9:** Ensure that the 2 black lines you drew earlier are lined up and the lateral is tight. *If the marks do not line up, use PTFE tape on the threads to ensure they line up correctly when tightened.*



**STEP 10:** Repeat steps 3 to 9 on all the remaining laterals.

**Please note:** *If you are backwashing less frequently than when using sand please ensure that the TDS and Cyanuric Acid levels remain within the recommended parameters.*