



CHADSON GRANULAR FILTERS

SERVICE INSTRUCTION SHEET

DATE: MAY 06 REVISION: B DOC #: 120

PG 1/2

TITLE: FILTER MEDIA & LATERAL REPLACEMENT

PREPARATION

Before commencing with the removal of the old filter media, check that all necessary materials are available or are scheduled for delivery. Refer to current sales outline drawings for specific filter media requirements.

PROCEDURE

- STEP 1:** Remove all the old media. (To remove the media beneath the slotted laterals, unscrew some of the slotted laterals to gain necessary access)
- STEP 2:** Remove all the remaining slotted laterals
- STEP 3:** Wash out the vessel with a hose to remove the last traces of media and any body fats that may be adhering to the filter internal surfaces. Ensure that all threads in the bottom pipe are clean and free from media.
- STEP 4:** Screw the new threaded connectors into the bottom pipe.
- STEP 5:** Using uPVC solvent cement, glue the new slotted laterals into the threaded connectors with the slots facing downwards.

CAUTION: DURING THIS OPERATION IT IS ESSENTIAL TO WEAR BREATHING APPARATUS AND WORK IN ACCORDANCE WITH A SAFETY PLAN ALL STATUTORY REGULATIONS.

STEP 6: Allow the glued joints to set for at least two hours before proceeding onto the next operation.

STEP 7: After the joints are cured close the filter drain valve and fill the vessel with water to a height 200mm above the laterals.

STEP 8: Carefully pour in the new or washed gravel and spread evenly over the laterals to a height of 25mm above them (it is essential that care be taken during this operation to ensure that the new laterals are not damaged).

STEP 9: Fill the filter with the sand, spreading it evenly throughout the vessel, until it is to the correct recommended height and then add more to allow for cleaning of "Fines" during the initial Backwash. Note: wear an approved Dust Mask during the sand filling stage.

CAUTION: WEAR AN APPROVED DUST MASK DURING THE SAND FILLING STAGE

STEP 10: Clean the seal, hatch and hatch lid of any media.

STEP 11: Re-insert hatch lid into filter and clamp in position (Do not over tighten)

STEP 12: Set the filter into the Backwash position and backwash for about 10 minutes or until the water runs clear. Note: If the water runs clear after only 3-4 minutes, stop the pump and allow the filter media to settle for two minutes, then repeat the Backwash for a further 3-4 minutes. (This can be repeated a third time).

STEP 13: After initial Backwash return filter into filter mode and record the "Start-Up" pressure for future reference to establish backwash frequency.

STEP 14: Record the replacement of filter sand & laterals in the project's Asset register.

LATERAL REPLACEMENT DIAGRAM

