Instruction for Back-Flushing of FILTROX Modules

Back-Flush Procedure (backward flow):

Back-flushing is very effective for removing larger surface deposits on the filter media. Back-flushing should be started when the differential pressure (dP) reaches approx. 15-25 psi / 1-1.7 bar (well before final dP) or at the end of a filtration batch.

1. If back-flushing is desired, this procedure should precede the Regeneration Procedure (forwards flow) as described below**.**
2. Adjust the housing for reverse flow by connecting the back-flush fluid feed line to the housing outlet valve. Direct the back flush discharge line to the drain.
3. Back-flush the modules with clean, ambient temperature water. The flow should get adjusted to half the filtration flow. However, **do not exceed 7 psi / 0.5 bar!**
4. If desired, increase the temperature to 120-140˚F / 50-60°C and flush for 10 minutes. If using ambient temperature water continue back-flushing for 15-20 minutes.
5. If using hot water (maximum 185°F / 85°C), stop flow after filling & let soak for 10 minutes, then restart reverse flow and back-flush to the drain for another 10 minutes.
6. Continue back-flush until flush water becomes relatively clear. Start forward flush procedure as described below (if desired).
7. Record the new "clean" dP at the start-up of your next filtration.

Regeneration Procedure (forward flow):

A forward flow regeneration can provide the most effective means for reducing blockage in the depth of the filter media. Regeneration should be performed well before reaching the final dP.

1. Clear housing from product via drain or outlet valve.
2. Start forward flushing with ambient temperature water and slowly increase the temperature to 120-140˚F / 50-60°C.
3. Flow of water can be set to equal flow rate as for the filtration of the product.
4. Record pressure.
5. After 5-10 minutes of flushing, stop the flow and soak the modules for 10 minutes.
6. Restart forward flushing for another 5-10 minutes, then drain.
7. After regeneration, drain remaining water from the housing and restart filtration.

With any questions do not hesitate to contact your local FILTROX sales manager or our application services.

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