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ICH 351

1. Filtration is any of various mechanical, physical or biological operations that separate solids from fluids ([liquids](https://en.wikipedia.org/wiki/Liquid))  by adding a medium through which only the fluid can pass. The fluid that passes through is called the filtrate.[[1]](https://en.wikipedia.org/wiki/Filtration#cite_note-1) In physical filters oversize solids in the fluid are retained and in biological filters particulates are trapped and ingested and metabolites are retained and removed. However, the separation is not complete; solids will be contaminated with some fluid and filtrate will contain fine particles.
2. –Δp=Pa-P3=(Pa-$p^{1}$) + ($p^{1 }$–Pb)= –Δpc – Dpm

Where; –Δp= overall pressure drop

 –Δpc = pressure drop over cake

 –Δpm = pressure drop over medium

 Pa= inlet pressure

 Pb=outlet pressure

 $p^{1}$= pressure at the boundary between cake and medium

1. Continuous Pressure Filter

And discontinuous pressure filter