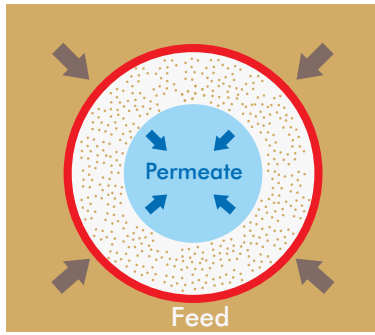
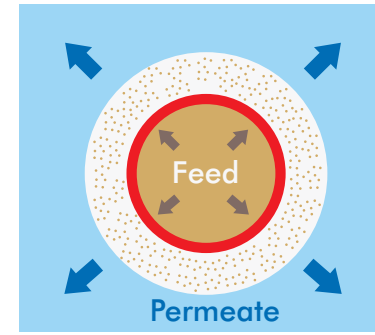


Advantages of Outside-In Flow as compared to Inside-Out flow configuration



Outside-In

- Solids remain outside of lumen.
- Cleaning is easier & less frequent.
- Allows uniform flow distribution and higher solids loading.
- More tolerant towards particulate fouling.
- Foulant removal is more effective during back wash with air scouring & CIPs.
- Prevents irreversible choking of Membrane Fibers during surges in feed water quality.



Inside-Out

- Fine prescreening is required to prevent the solids from entering the lumen.
- Cleaning is aggressive & more frequent.
- Higher solids loading may cause fiber blockage.
- Less tolerant towards particulate fouling.
- Aggressive CEBs & CIPs may be needed for effective removal of foulants.
- Inside-Out membrane may inevitably foul.