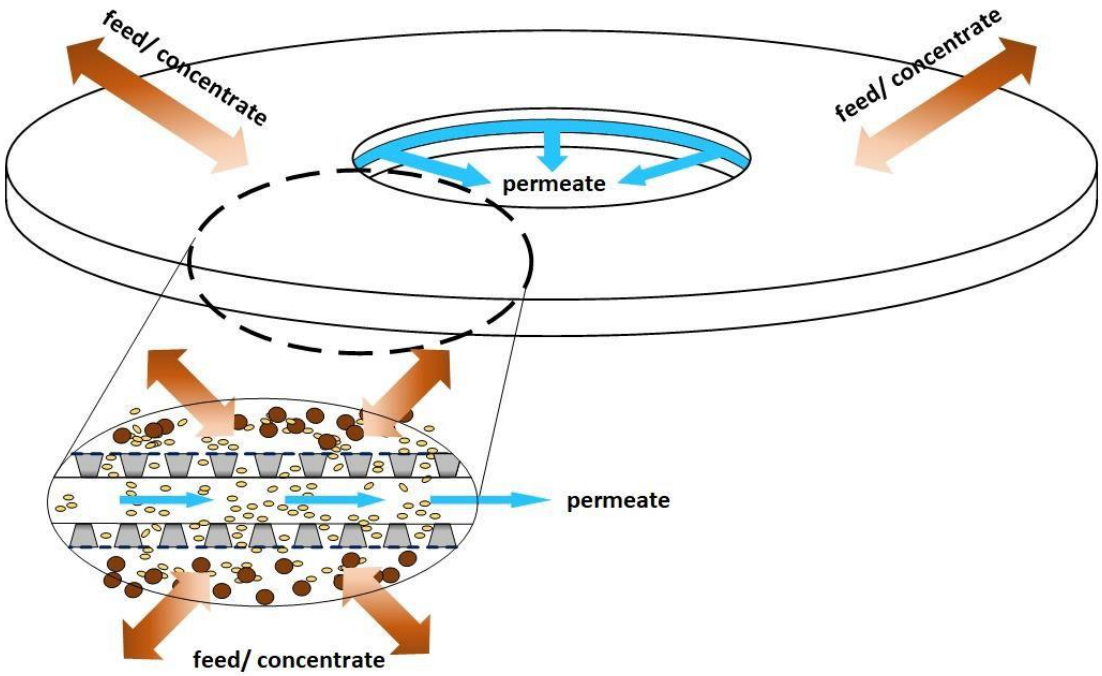
Inopor – Rotation discs

Dynamic filtration:

Rotary filtration discs or dynamic cross-flow filters are disc-shaped elements. These filtration discs are available in different pore sizes and **geometries**. The functional layer (**membrane**) is on the outside of the element (**support**), so the direction of filtration is “outside-in”.

The **feed** is filtered through the membrane. Particles larger than the pores of the membrane are retained (**concentrate**). Particles smaller than the pores of the membrane form the **permeate / filtrate**, which passes through the membrane and the support to a hollow shaft through which the permeate is then discharged.
Multiple discs are stacked in a **module** for industrial applications. These stacks rotate to create the cross-flow effect and to regulate the cake layer, which is formed by filtering the feed.



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Inopor - Rotation discs

Membranes and pore sizes:

Support material	Pore sizes [nm]				
	Membrane material	Microfiltration	Membrane material	Ultrafiltration	Nanofiltration
α-Al_2O_3	α-Al_2O_3	1100	α-Al_2O_3/ZrO_2	50	
		800	TiO_2	10	1
		400		5	0,9
		200	ZrO_2	3	
		100			
		70			

* The yellow highlighted sizes are under development. Please contact us for further information.

Geometries:

Geometry	Outer diameter [mm]	Inner diameter [mm]	Height [mm]	Membrane area [m²]
01	152	25,5	4,5	0,04
02	152	25,5	6	0,04
03	184	25	6	0,06
04	280	91	6	0,12
05	312	91	6	0,15
06	374	91	6	0,21
08	374	131	6	0,20



Please contact us for further support.

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Status: July 2020.