

PVDF-6595 Hollow Fiber UF Membrane

Puran PVDF-6595 UF Membrane Modules are made from high permeability, high mechanical strength hollow fiber PVDF membranes. The fibers produced by thermal process makes the modules have good performance in sea water and waste water pretreatment.

Features

- 0.1micron nominal pore size for removal of bacteria, viruses, and particulates including colloids to protect downstream processes such as RO.
- Outside-In flow configuration allowing a wide range of solids in the feed water minimizing the need for pretreatment processes and reducing the backwash volume compared to Inside-Out configurations.
- PVDF polymeric hollow fibers for high mechanical strength with excellent chemical resistance providing long membrane life and reliable operation.

Typical Applications

- Drinking water production (raw water as tap water, ground water, surface water, etc.).
- Reuse of sewage (filtration of secondary effluent).
- Pretreatment for RO membrane process (seawater desalination, waste water reuse, industrial water production).

Specification

Item	Specification
Model	PVDF-6595
Membrane fiber material	PVDF
Membrane fiber I.D./O.D.	0.7 / 1.3 mm
Membrane surface area	50 m ²
Nominal pore size	0.1micron
Designed flow rate	2.0-5.0m ³ /h
Filtrate turbidity	≤0.1 NTU
Virus removal	99.99%
Bacteria removal	99.99%

Using Conditions

Maximum Operating Temperature:	5-40 °C
Maximum Applied Feed Pressure:	3bar
Maximum Transmembrane Pressure	1.5bar
Maximum Backwash Pressure:	2bar
Instantaneous Chlorine Tolerance	100ppm
pH Operating Range	2-11
Cleaning pH Range	1-12
Operating Mode:	Outside to Inside Filtration

Typical Process Conditions

Feed Water Turbidity	50NTU max.
Backwash Flux	10.5m ³ /h-15.7m ³ /h
Backwash Duration	60-114seconds
Backwash Frequency	15-60minutes
Air Scour Pressure	1bar
Air Scour Duration	120-240seconds
Air Scour Rate	8-15Nm ³ /h
Disinfection Chemicals	NaOCl, H2O2, ClO2 or NH2Cl
Cleaning Chemicals	NaOH, HCl, H2SO4, or Citric Acid

Storage

- Cool, dry, clean and no corrosive gas places with cover.
- Environmental temperature: 5-40°C.
- Keep away from inflammable and explosive stuff and fire.

Dimension

