LG Water Solutions

LG Chem

QuantumFlux™ P0915-IP-N Product Data Sheet

Pressurized UF Membrane Data Sheet

LG QuantumFlux™ UF hollow fiber membranes are manufactured using Polyvinylidene Fluoride(PVDF), ensuring exceptional chemical durability. Its wide range of module configurations enables users to select the optimal setup for new projects or seamlessly retrofit into existing installations.

Key Features & Benefits

Easy to Retrofit

Cost-effective and quality option to replace existing products

Excellent Chemical Durability

Excellent resistance to acids, caustics and oxidants

Optimized Module Internal Design

Minimized solid accumulation and membrane fouling

Outside-in Filtration

Versatile operation for a wider range of solid loadings

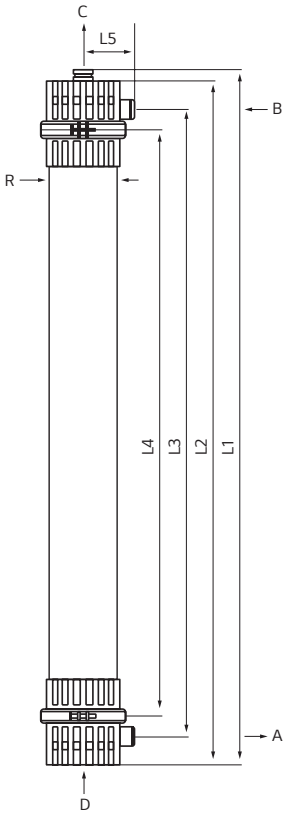
Material Specifications

Membrane Material: PVDF (NIPS) | Pore Size: 0.04 μm

Housing Material: uPVC/ABS | Potting Material: Epoxy/Polyurethane

Demension Parameters

Filtration Surface Area (m^2) [ft^2]	51 [549]
Column Volume (L) [gal]	49 [12.9]
Empty Weight (kg) [lbs]	53 [116]
L1 (mm) [inches]*	1,988 [78.2]
L2 (mm) [inches]*	1,864 [73.4]
L3 (mm) [inches]*	1,689 [66.5]
L4 (mm) [inches]*	1,500 [59.1]
L5 (mm) [inches]*	180 [7.1]
R (mm) [inches]*	225 [8.9]



Port Configuration

Port A (mm) [inches]*	Feed/Discharge-DN100 [4]
Port B (mm) [inches]*	Concentrate-DN100 [4]
Port C (mm) [inches]*	Filtrate-DN40 [1 1/2]
Port D	Air Inlet-3/8”

Design and Operating Parameters

Typical Filtrate Flowrate (m³/hr) [gpm]	2.0–6.1 [8.9–26.9]
Filtration Mode	Outside-in
Typical Flux (LMH) [gfd][1]	40–120 [25–70]
Operating Temperature (°C) [°F]	5–40 [41–104]
pH Range	Operating: 2-11; Cleaning: 1-12
Air Scour Flowrate (m³/hr/module) [cfm]	5-12 [2.9-7.1]
Instantaneous Chlorine Tolerance (ppm)	5,000
Maximum Lifetime Chlorine Tolerance (ppm-hrs)	2,000,000
Maximum Feed Turbidity (NTU)[2]	300
Maximum Transmembrane Pressure (bar) [psi]	2.1 [30]
Maximum Feed Pressure (bar) [psi][3]	6.25 [90]
Oil Content in Feed Water (ppm)	< 0.5
Allowed Particle Size in Feed Water (mm)[2]	≤ 0.3 ≤ 0.12 for Seawater Feeds

1. Flux selection depends on feed type and water quality. Please consult LG Water Solutions for flux selection.
2. Please consult LG Water Solutions for deviations.
3. At temperatures of 20°C.

Product Nomenclature

QuantumFlux™ P 09 15 IP N

- N: Membrane Material N: NIPS
- 15: Module Length
- 09: Module Diameter
- P: Filtration Mode
  - P: Pressurized
  - S: Submerged