

PPG Filtration Technologies

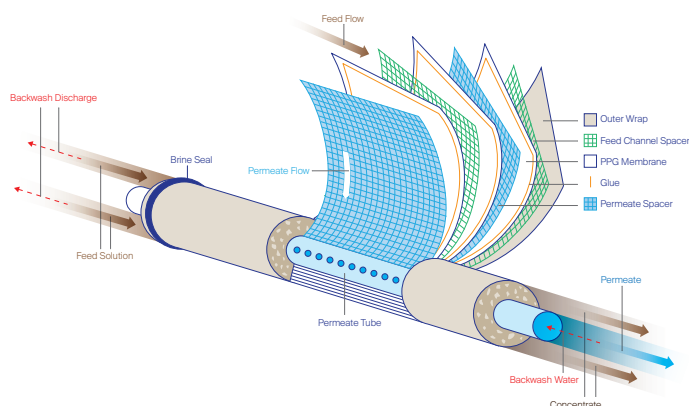
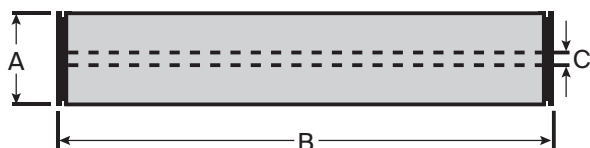
Product Data Sheet PPG 4040

Description

Proprietary Composite Spiral Element
Available in Fiberglass and Netting Wrap configurations
Anti-Telescoping Device (ATD) both ends
Brine seal (one end) - Fiberglass Wrap only
UF membrane is available with super-hydrophilic (SHP) technology for improved fouling resistance

Dimensions

Element Diameter (**A**): 3.88" (98.6 mm)
Element Length (**B**): 40.0" (1016 mm)
Permeate Tube ID (**C**): 0.625" (15.9 mm)
Weight: ~9 lbs (4 kg)



UF Super-hydrophilic Anti-fouling Membrane

Designed for a wider range (higher levels – single digit % versus trace) of oily waste or process waters containing oils, greases and other tough-to-remove contaminants. Our super-hydrophilic membrane (SHP) extends the service life of membranes and reduces maintenance and replacement costs.

The specifications for this product are the dimensions and element properties identified on this Product Data Sheet. The operating parameters on this Product Data Sheet are based upon information believed by PPG to be currently accurate; however, PPG makes no representations or warranties regarding the accuracy of the operating parameters or any other information on this Product Data Sheet. PPG also makes no representations or warranties regarding the performance or results of this product, or regarding freedom from patent infringement in the use of any formulae or process on this Product Data Sheet. Improvements in filtration technology may cause operating parameters to vary from what is on this Product Data Sheet.

Membrane Properties			
Membrane Material	Proprietary Composite		
Nominal Pore Size (µm)	0.05, 0.15		
Membrane Area	8.9 m ²	7.1 m ²	4.9 m ²
	96 ft ²	76 ft ²	53 ft ²
Feed Spacer	31 mil	43 mil	65 mil
Part # Fiberglass Wrap			
UF	ULC4040-DA1P-FEM06FF	ULC4040-DB1P-FEM06FF	ULC4040-DD1P-FEM06FF
UF SHP**	MMS4040-DA1P-FEM06FF	MMS4040-DB1P-FEM06FF	MMS4040-DD1P-FEM06FF
MF	MNC4040-DA1P-FEM06FF	MNC4040-DB1P-FEM06FF	MNC4040-DD1P-FEM06FF
Part # Netting Wrap			
UF	ULC4040-DA1P-NNM06FF	ULC4040-DB1P-NNM06FF	ULC4040-DD1P-NNM06FF
UF SHP**	MMS4040-DA1P-NNM06FF	MMS4040-DB1P-NNM06FF	MMS4040-DD1P-NNM06FF
MF	MNC4040-DA1P-NNM06FF	MNC4040-DB1P-NNM06FF	MNC4040-DD1P-NNM06FF
Method of Operation	Cross Flow		

**Super-hydrophilic

Operating Parameters				
Feed Spacer Configuration		31 mil	43 mil	65 mil
pH Range		1.8 - 10		
Maximum Temperature	Continuous (Netting Wrap)	≤ 43°C (110°F)		
	Continuous (Fiberglass Wrap)	≤ 57°C (135°F)		
	Clean-In-Place [CIP]	≤ 50°C (122°F)		
Typical Flux Rate, Pure Water	LMH	35 -135		
	GFD	20 - 80		
Maximum Flow Rate	GPM	100		
	m³/h	22.7		
Maximum Feed Pressure	bar	≤ 6.9		
	psi	≤ 100		
Maximum Differential Pressure (per element)	bar	≤ 1.4		
	psi	≤ 20		
Backwash/Permeate Pressure	bar	≤ 3.5		
	psi	≤ 30		
Backwash Flow Rate	m³/h	0.7	0.5	0.4
	GPM	3.0	2.4	1.7
Typical Recovery Rate (per element)		16%	9%	6%

