

# PPG Filtration Technologies

## Product Data Sheet: PPG 4040-D\*1P-FEM

### 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

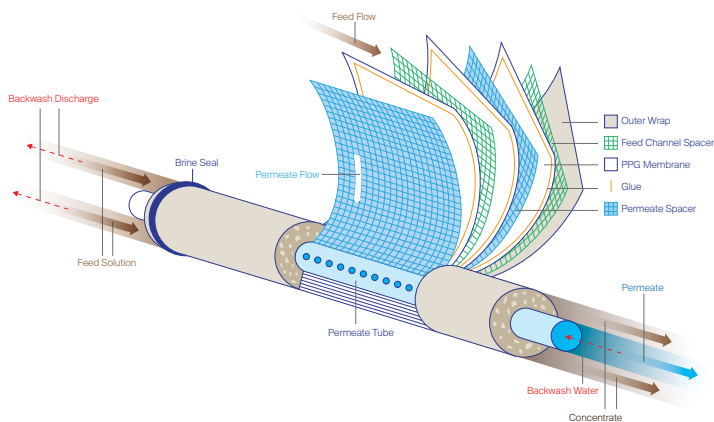
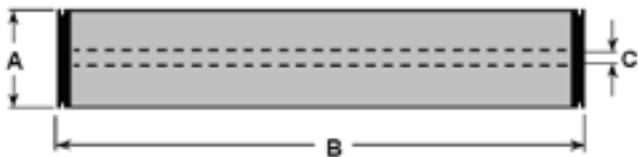
### Dimensions

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)



Element Properties			
Membrane Material	Proprietary Composite		
Nominal Pore Size (µm)	0.05, 0.15		
Membrane Area	6.7 m <sup>2</sup>	5.3 m <sup>2</sup>	3.7 m <sup>2</sup>
	72 ft <sup>2</sup>	57 ft <sup>2</sup>	40 ft <sup>2</sup>
Feed Spacer	31 mil	43 mil	65 mil
Part # Fiberglass Wrap			
UF	ULA4040-DA1P-FEM06FF	ULA4040-DB1P-FEM06FF	ULA4040-DD1P-FEM11FF
MF	MNA4040-DA1P-FEM06FF	MNA4040-DB1P-FEM06FF	MNA4040-DD1P-FEM11FF
Part # Netting Wrap			
UF	ULA4040-DA1P-NNM06FF	ULA4040-DB1P-NNM06FF	ULA4040-DD1P-NNM11FF
MF	MNA4040-DA1P-NNM06FF	MNA4040-DB1P-NNM06FF	MNA4040-DD1P-NNM11FF
Method of Operation	Cross Flow		

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 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	m <sup>3</sup> /h	0.7	0.5	0.4
	GPM	3.0	2.4	1.7
Typical Recovery Rate (per element)	16%	9%	6%	

\* Feed Spacer Configuration

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.

