

# HYDRACoRe50-PS

Hydranautics' HYDRACoRe50 product is a chemical and oxidant-resistant composite nanofiltration element which is designed to reject organic species with a nominal molecular weight of 1000 or greater. Applications include: color separations and adjustments in juices, sauces, and food extracts; dye concentration; protein and enzyme concentration.

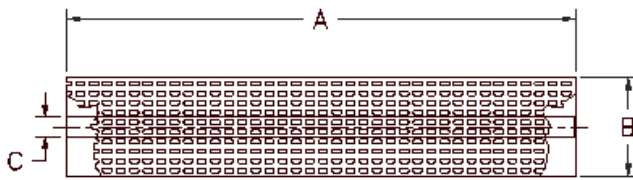
All products are USDA accepted. Components conform to FDA regulation CFR Title 21 Part 177, USDA 3-A sanitary standard 45-03, EC Reg. No. 1935/2004, and EU Reg. No. 10/2011. Kosher certified. Halal certified.

## General Product Description

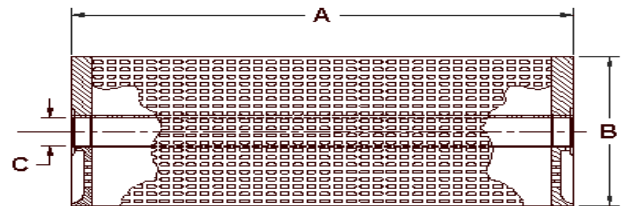
Configuration: Sanitary (Full-Fit)  
 Membrane Polymer: Sulfonated Polyethersulfone  
 Molecular Weight Cut-off: 1000 daltons

Packaging: Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulfite solution, and then packaged in a cardboard box. 8040 styles include interconnector assembly, anti-telescoping devices (ATDs), and brine seals. For Halal applications do not use the brine seal.

Model	Feed Spacer, inches (cm)	Area, ft <sup>2</sup> (m <sup>2</sup> )	Dimensions, inches. (cm)			Max. Feed Flow, gpm (m <sup>3</sup> /hr)	Max. Pressure Drop per Element, psi (bar)
			A	B	C		
3838-30	0.030 (0.076)	80 (7.4)	38.0 (96.5)	3.78 (9.60)	0.83 (2.11)	30 (6.8)	15 (1.0)
3838-46	0.046 (0.117)	63 (5.9)	38.0 (96.5)	3.78 (9.60)	0.83 (2.11)	30 (6.8)	15 (1.0)
3838-65	0.065 (0.165)	50 (4.6)	38.0 (96.5)	3.78 (9.60)	0.83 (2.11)	30 (6.8)	15 (1.0)
3840-30	0.030 (0.076)	80 (7.4)	38.75 (98.4)	3.78 (9.60)	0.83 (2.11)	30 (6.8)	15 (1.0)
3840-46	0.046 (0.117)	63 (5.9)	38.75 (98.4)	3.78 (9.60)	0.83 (2.11)	30 (6.8)	15 (1.0)
8038-30	0.030 (0.076)	385 (36)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
8038-46	0.046 (0.117)	300 (28)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
8038-65	0.065 (0.165)	230 (21)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
8040-30	0.030 (0.076)	385 (36)	40.0 (101.6)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
8040-46	0.046 (0.117)	300 (28)	40.0 (101.6)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
8040-65	0.065 (0.165)	230 (21)	40.0 (101.6)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)



3838, 3840, 8038 Style



8040 Style with ATDs

## Product Use and Restrictions<sup>^</sup>

Maximum Applied Pressure: 600 psig (4.1 MPa)  
 Maximum Continuous Chlorine Concentration<sup>1</sup>: 10 ppm  
 Maximum Chlorine Concentration for Cleaning<sup>1</sup>: 100 ppm  
 Maximum Operating Temperature: 122 °F (50 °C)  
 Operating pH Range: 2.0 – 11.0  
 Cleaning pH Range (ambient temperature): 1.0 – 12.0  
 Cleaning pH Range (max. temp 122°F/50 °C): 1.5 – 11.0  
 Maximum Pressure Drop for a vessel: 60 psi (0.41 MPa)

<sup>1</sup> Transition metals (Fe, Mn) should not be present in the water or on the membrane as these can accelerate detrimental reactions between the membrane and the oxidant.

<sup>^</sup> The limitations shown here are for general use. For specified projects, operation at more conservative values may ensure the best performance and longest life of the membrane. See Hydranautics Technical Bulletins for more details.

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