

GK Series



Industrial Ultrafiltration Elements – TFM* 3,500 MWCO

The G-Series family of proprietary thin-film ultrafiltration membrane elements is characterized by a molecular weight cutoff of 3,500 on polyethylene glycol and a smooth, fouling resistant membrane surface.

GK Elements are used for surface water pretreatment, color/TOC reduction, and chemical purification.

Table 1: Element Specification

Membrane	G-series, thin-film membrane (TFM*)
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Model	Spacer mil (mm)	Active area ft ² (m ²)	Outer wrap	Part number
GK2540F1072	30 (0.76)	27 (1.8)	Fiberglass	1207129
GK2540F1073	50 (1.27)	17 (1.6)	Fiberglass	1207130
GK4040C1025	50 (1.27)	64 (5.9)	Cage	1207142
GK4040F1020, Stinger	30 (0.76)	98 (9.1)	Fiberglass	3050009
GK4040F1021, Stinger	50 (1.27)	64 (5.9)	Fiberglass	3050008
GK4040F1023, Stinger	30 (0.76)	90 (8.4)	Fiberglass	3050007
GK8040C-50P	50 (1.27)	257 (23.8)	Cage	1207151
GK8040F1001	30 (0.76)	370 (34.4)	Fiberglass	1207152
GK8040F1002	50 (1.27)	250 (23.2)	Fiberglass	1207153

Model	Average permeate flow gpd (m ³ /day) ¹	MWCO (Dalton)
GK2540F1072	420 (1.6)	3,500
GK2540F1073	270 (1.0)	3,500
GK4040C1025	1,000 (3.8)	3,500
GK4040F1020, Stinger	1,600 (6.0)	3,500
GK4040F1021, Stinger	1,000 (3.8)	3,500
GK4040F1023, Stinger	1,400 (5.3)	3,500
GK8040C-50P	4,100 (15.5)	3,500
GK8040F1001	5,900 (22.3)	3,500
GK8040F1002	4,000 (15.1)	3,500

¹Flux specifications are based on fouling free water at 85psi operating pressure (586 kPa), 77°F (25°C), and 10% recovery. Individual element flux may vary ± 25%.

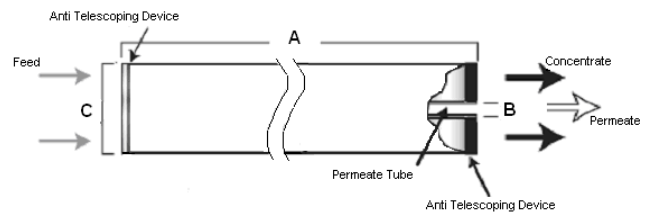


Figure 1: Element Dimensions Diagram – Female

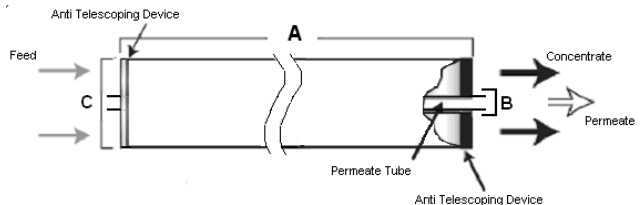


Figure 2: Element Dimensions Diagram – Male, Stinger

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Table 2: Dimensions and Weight

Model ²	Dimensions, inches (cm)			Boxed
	A	B ¹	C ³	Weight lbs (kg)
GK2540F1072	40.0 (101.6)	0.75 (1.90) OD	2.4 (6.1)	4 (1.8)
GK2540F1073	40.0 (101.6)	0.75 (1.90) OD	2.4 (6.1)	4 (1.8)
GK4040C1025	40.0 (101.6)	0.625 (1.59)	3.9 (9.9)	9 (4.1)
GK4040F1020, Stinger	40.0 (101.6)	0.75 (1.9)	3.9 (9.9)	9 (4.1)
GK4040F1021, Stinger	40.0 (101.6)	0.75 (1.9)	3.9 (9.9)	9 (4.1)
GK4040F1023, Stinger	40.0 (101.6)	0.75 (1.9)	3.9 (9.9)	9 (4.1)
GK8040C-50P	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)
GK8040F1001	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)
GK8040F1002	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	29 (13.2)

¹Internal diameter unless specified OD (outside diameter).

²These elements are dried then bagged before shipping.

³The element diameter (dimension C) is designed for optimum performance in GE pressure vessels. Others pressure vessel dimension and tolerance may result in excessive bypass and loss of capacity.

Table 3: Operating and CIP parameters

Typical Operating Flux	5 - 20 GFD (8 - 34 LMH)
Maximum Operating Pressure	400psi (2,760kPa)
Maximum Temperature	Continuous operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
pH Range	Continuous operation: 2-10 Clean-In-Place (CIP): 1.0-11.5
Maximum Pressure Drop	Over an element: 15psi (103kPa) Per housing: 60psi (414kPa)
Chlorine Tolerance	1,000 ppm days