

TECHNICAL SPECIFICATIONS

Membrane	Thin-Film Membrane (TFM*)
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AG Series - RO High Rejection Elements

Model	Average permeate flow gpd (m3/day) ^{1,2}	Average NaCl rejection ^{1,2}	Minimum NaCl rejection ^{1,2}
AG4040FM CERT	2,200 (8.3)	99.5 %	99.0 %

1 Average salt rejection after 24 hours operation. Individual flow rate may vary +25%/-15%.

2 Testing conditions: 2,000ppm NaCl solution at 225psi (1,551kPa) operating pres-sure, 77 °F, pH 7.5 and 15% recovery.

AK Series - RO Low Energy Elements

Model	Average permeate flow gpd (m3/day) ^{1,2}	Average NaCl rejection ^{1,2}	Minimum NaCl rejection ^{1,2}
AK4040FM CERT	2,200 (8.3)	99.0 %	98.0 %

1 Average salt rejection after 24 hours operation. Individual flow rate may vary +25%/-15%.

2 Testing conditions: 500ppm NaCl solution at 115 psi (790kPa) operating pressure, 77 °F, pH 7.5 and 15% recovery.

Model	Active area ftz (m2)	Outer wrap	Part number
AG4040FM CERT	85 (7.9)	Fiberglass	1231652
AK4040FM CERT	85 (7.9)	Fiberglass	1231655

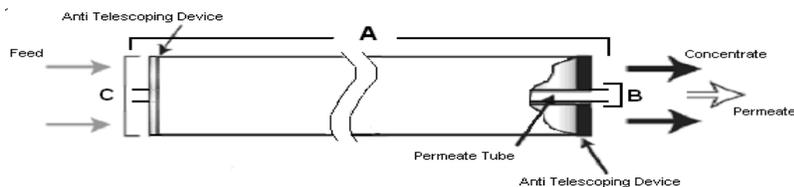


Figure 1: Element Dimensions Diagram – Male

Table 2: Dimensions and Weight

Model ¹		Dimensions, inches (cm)		Boxed
A		B ²	C ³	Weight lbs (kg)
AG4040FM CERT	40.0 (101.6)	0.75 (1.90) OD	3.9 (9.9)	8 (3.5)
AK4040FM CERT	40.0 (101.6)	0.75 (1.90) OD	3.9 (9.9)	8 (3.5)

¹These elements are bagged dried before shipping.

²Internal diameter unless specified OD (outside diameter).

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

Table 3: Operating and CIP parameters

Typical Operating Pressure	AG Series: 200 psi (1,379 kPa) AK Series: 100 psi (689 kPa)
Typical Operating Flux	10-20GFD (15-35LMH)
Maximum Operating Pressure	AG Serie: 600 psi (4,137 kPa), AK Serie: 400 psi (3,758 kPa)
Maximum Temperature	All: Continuous operation: 122°F (50°C) AG-AK Series Clean-In-Place (CIP): 122°F (50°C)
pH Range	AG-AK Series: Optimum rejection pH: 7.0-7.5 Continuous operation: 4.0-11.0 Clean-In-Place (CIP): 2.0-11.5
Maximum Pressure Drop	Over an element: 12psi (83kPa) Per housing: 50psi (345kPa)
Chlorine Tolerance	1,000+ ppm-hours, dechlorination recommended
Feedwater	NTU < 1 SDI < 5