



NAVBHARAT WATER PVT LTD  
*Sustainable Solutions*

# PRODUCT MANUAL

# RO MEMBRANE

TW

BW

SW





## APPLICATION AREA



### Steel, Power, Petrochemical

- Ultra-pure water and reuse
- Boiler recharge water
- Wastewater treatment



### Metallurgy, Coal Chemical Industry, Electroplating

- Production of pure water
- Treatment of wastewater



### Bio-Pharmaceutical

- Material separation and concentration
- Ultra-pure water production



### Environmental Protection, Paper Making, Textile Printing and Dyeing

- Recycling water
- Standard discharge of landfill leachate and waste water:
- Decolorization and COD removal of water waste



### Food, Drink, Dairy products

- Production of pure water



### Urban Water Supply

- Seawater desalination
- Direct drinking water & drinking water production

# Navbharat Water Industrial BW-4040 RO Membrane Series

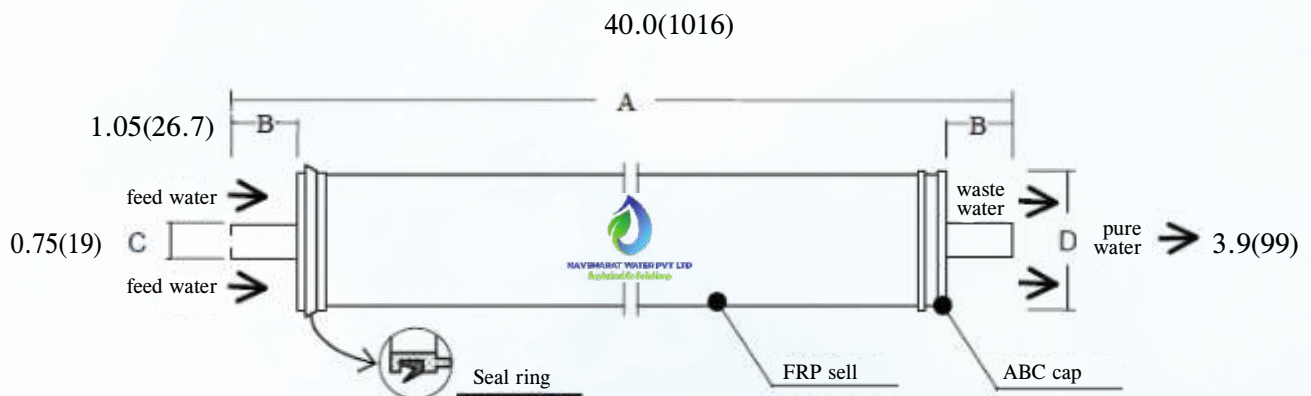


## 1. Testing Condition and Performance

Model	Sheet area ft <sup>2</sup> (m <sup>2</sup> )	Pressure psi(MPa)	Flow GPD (m <sup>3</sup> /d)	Salt Rejection (%)
BW-4040-HR	90(8.4)	225(1.55)	2400(9.1)	99.7
BW-4040-HF	90(8.4)	225(1.55)	2700(10.2)	99.5
BW-4040-FR	90(8.4)	225(1.5)	1900(7.2)	99.8

- The flow and rejection are based on following testing condition: 2000ppm softened tap water, temperature 25°C, pH7.5-8, recovery rate 15% and above testing pressure
- One single membrane flow may fluctuate within  $\pm 15\%$

## 2. Membrane Size



**Model - BW-4040**

# Navbharat Water Industrial BW-8040 RO Membrane Series

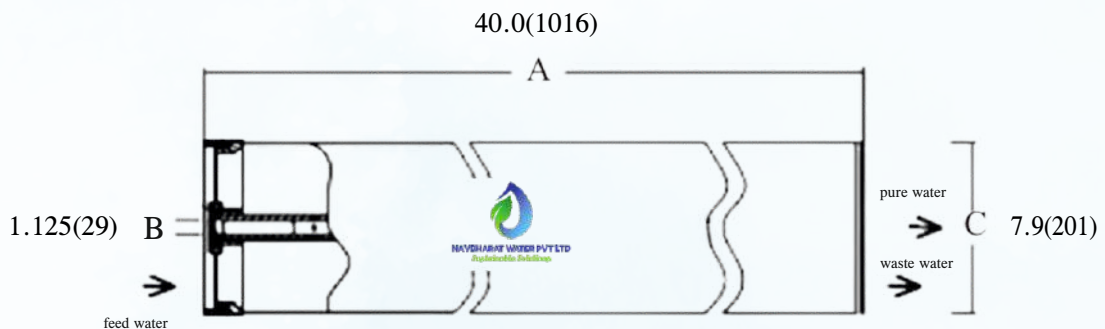


## 1. Testing Condition and Performance

Model	Sheet area ft <sup>2</sup> (m <sup>2</sup> )	Pressure psi(MPa)	Flow GPD (m <sup>3</sup> /d)	Salt Rejection (%)
BW-8040-HR	400(37)	225(1.55)	11000(41.6)	99.7
BW-8040-HF	400(37)	225(1.55)	12000(45.4)	99.5
BW-8040-365FR	365(33.9)	225(1.55)	9600(36.3)	99.8
BW-8040-400FR	400(37)	225(1.55)	10500(39.7)	99.8
BW-8040-440FR	400(40.9)	225(1.55)	11500(43.5)	99.8

- The flow and rejection are based on following testing condition: 2000ppm softened tap water, temperature 25°C, pH7.5-8, recovery rate 15% and above testing pressure
- One single membrane flow may fluctuate within  $\pm 15\%$

## 2. Membrane Size



**Model - BW-8040**



### 3. Operation limits and condition

<b>Operation Limits</b>	<b>Membrane type</b>	<b>Polyamide composite Membrane (BW-4040)</b>	<b>Polyamide composite Membrane (BW-8040)</b>
	Maximum feed water temperature	45° C	45° C
	Maximum operating pressure	600psi (4.14Mpa)	600psi (4.14Mpa)
	Maximum feed water flow	14GPM (3.2m <sup>3</sup> /h)	85GPM (19m <sup>3</sup> /h)
	Minimum concentrated water flow	3GPM (0.7m <sup>3</sup> /h)	12GPM (2.7m <sup>3</sup> /h)
	pH range during operation	3-10	3-10
	pH range during chemical cleaning	2-12	2-12
	Maximum feed water SDI15	5	5
	Maximum influent turbidity /NTU	1	1
	Free chlorine tolerance (mg/L)	0.1	0.1
	Maximum pressure drop of one element	15 (0.1)psi (MPa)	15 (0.1)psi (MPa)



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