



Product Data Sheet

MR: MR-BW-8040

Next Generation of Industrial Reverse Osmosis Elements

Description

MR industrial elements are the most reliable, consistent and highest quality in the industry. Our elements offer the best balance of flow and rejection, producing industry leading flow rates (around 20% higher) than competitive elements at similar pressures.

MR Industrial Elements Feature:

- Longer lifetimes that can reduce operating cost for OEM's/brand owners
- NSF safety certification and ability for NSF data transfer reducing certification costs
- Fully-automated manufacturing that ensures consistent and high quality elements
- Dry shipping for convenient handling and longer shelf-life
- High quality elements significantly reduce or eliminate element Quality Control (QC) costs

Product Type

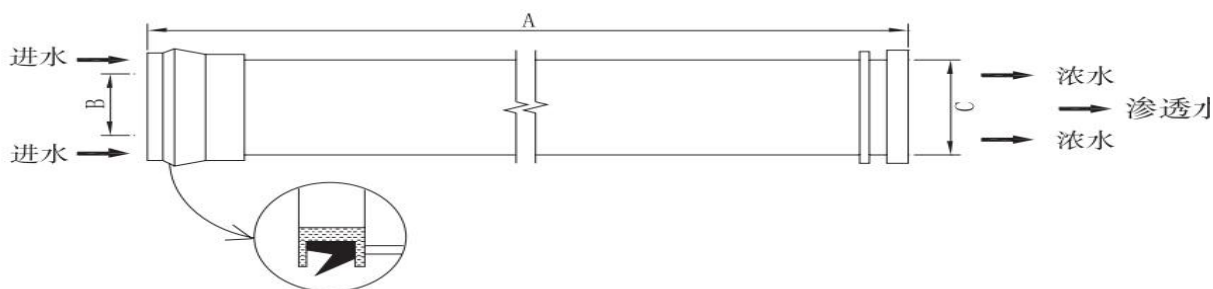
Spiral-wound element with polyamide thin-film composite membrane

Product Specifications

MR Element	Applied Pressure		Permeate Flow Rate		Typical Stabilized Salt
	(psi)	(bar)	(GPD)	(m ³ /d)	Rejection (%)
MR-BW-8040	225	15	11000	41.6	99.65

1. Permeate flow and salt rejection based on the following test conditions: 250 ppm softened tap water, 77°F (25°C), 15% recovery and the specified applied pressure.
2. Minimum salt rejection is 99%.
3. Permeate flows for individual elements may vary ±20%.

Element Dimensions



型号	A	B	C
8365/8400/8440	1016.0 (40.0)	29.0 (1.1)	201 (7.9)

MR Membranes

Industrial Reverse Osmosis Elements

Influence of temperature and pressure on permeate flow

Figure 2:

Impact of pressure on permeate flow
(constant temperature, recovery)

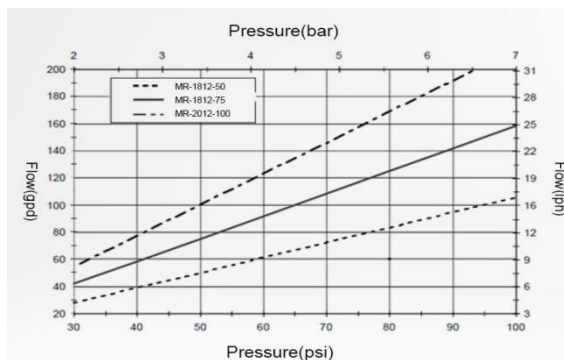
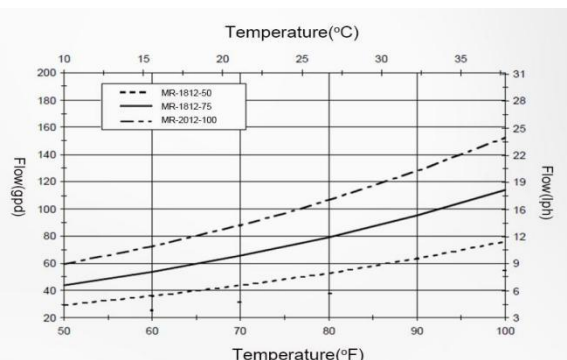


Figure 3:

Impact of temperature on permeate flow
(constant temperature, recovery)



Operating and Cleaning Limits

Maximum Operating Temperature ^a	113°F (45°C)
Maximum Operating Pressure	1000 psi (6.9Mpa)
Maximum Feed Flow Rate	14gpm (3.2m ³ /h)
pH Range, Continuous Operation ^a	3 – 10
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance ^b	< 0.1 ppm

a. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).

b. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, MR Water & Process Solutions recommends removing residual free chlorine by pretreatment prior to membrane exposure.

Additional

Important Information

- It is recommended that systems using these elements rinse the elements for 24 hours, prior to first use, to meet NSF/ANSI 58 Standard.
- The first full tank of permeate must be discarded. Do not use this initial permeate for drinking water or food preparation.
- To ease installation, it is recommended to use a lubricant safe for indirect water contact on all seals. Potential options include water, glycerin based lubricants, and MR Corning™ 111
- Rotate the element about a quarter turn to ease installation and removal of the element. Ensure good interface between the o-rings and brine seal with their connection surfaces.
- Keep elements moist at all times after initial wetting.
- To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution. Rinse out the preservative before use.
- The membrane shows some resistance to short-term attack by chlorine (hypochlorite). Continuous exposure, however, may damage the membrane and should be avoided.
- MR™ Industrial Drinking Water Reverse Osmosis Elements may be covered under the MR™ Reverse Osmosis and Nanofiltration Element Three-Year Prorated Limited Warranty. Such Limited Warranty is non-transferable. Contact a MR representative for more information.

If operating limits and guidelines given in this Product Information Bulletin are not strictly followed, the Limited Warranty will be null and void. The OEM is fully responsible for the effects of incompatible chemicals and lubricants on elements. Use of any such chemicals or lubricants will void the Limited Warranty.

Regulatory Note

These membranes may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.

Product Stewardship

MR has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with MR products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

MR strongly encourages its customers to review both their manufacturing processes and their applications of MR products from the standpoint of human health and environmental quality to ensure that MR products are not used in ways for which they are not intended or tested. MR personnel are available to answer your questions and to provide reasonable technical support.

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