



Product Data Sheet

TapTec™ TT-3012-400 Element

Description

TapTec™ Residential Reverse Osmosis (RO) Elements provide a unique balance of reliability and value for performance through leveraging the proven technologies from DuPont - one of the most trusted brands in water treatment and the inventor of thin-film composite RO membrane, the core of modern RO technology. Focused on the local water conditions and water purifier operations, TapTec™ RO Elements are committed to be the choice for normal households.

For further information on product selection, please visit <http://www.dupont.com/water.html> or seek advice from your DuPont representative in order to determine the best membrane choice and optimum operating conditions.

Product Type

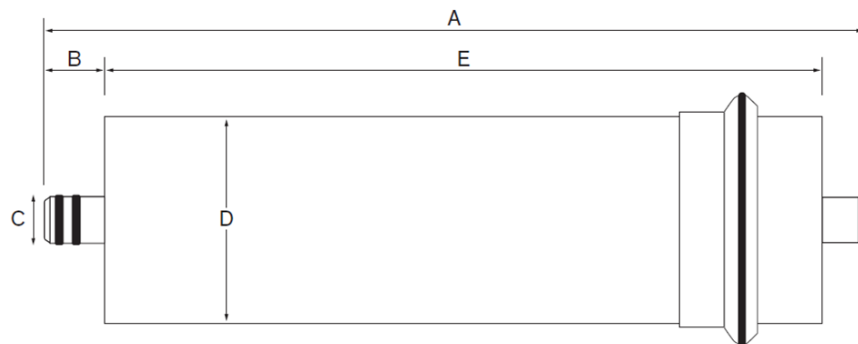
Spiral-wound element with polyamide thin-film composite membrane

Typical Properties

TapTec™ Element	Applied Pressure		Permeate Flow Rate		Typical Stabilized Salt Rejection (%)
	(psig)	(bar)	(GPD)	(L/m)	
TT-3012-400	70	4.8	400	1.0	96

1. Permeate flow and salt rejection based on the following test conditions: 250 ppm NaCl, 77°F (25°C), pH 8.0, 20% recovery and the specified applied pressure.
2. Minimum salt rejection is 94.0%.
3. Permeate flows for individual elements may vary +35/-5%.

Element Dimensions



TapTec™ Element	A		B		C		D		E	
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
TT-3012-400	11.74	298	0.83	21	0.68	17	2.93	74.5	10.1	256

1. TT-3012 Residential Elements seal at a standard 3.0 inch – 3.05 inch I.D. within pressure vessels.

Element Dimensions (Cont.)

Figure 1: Impact of Pressure on Target Permeate Flow
(constant temperature, recovery)

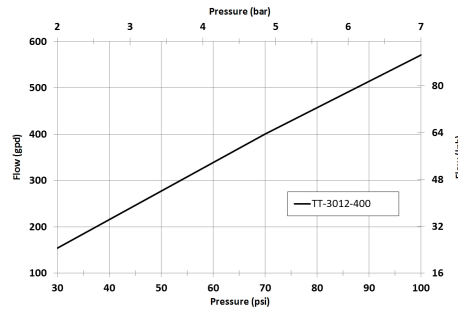
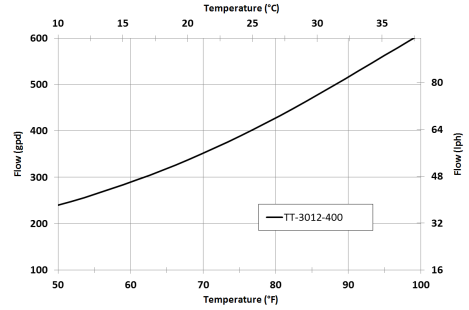


Figure 2: Impact of Temperature on Target Permeate Flow
(constant pressure, recovery)



Operating and Cleaning Limits

Maximum Operating Temperature ^a	113°F (45°C)
Maximum Operating Pressure	150 psig (10 bar)
Maximum Feed Flow Rate	2.5 gpm (9.5 lpm)
pH Range, Continuous Operation	4 – 11
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, DuPont Water Solutions recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to [Dechlorinating Feedwater](#) (Form No. 45-D01569-en) for more information.

Additional Important Information

- Keep elements moist at all times after initial wetting.
- 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 Molykote® 111 Compound.
- 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.
- The use of this product does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the operation and maintenance of the system.
- TapTec™ Residential Reverse Osmosis Elements may be covered under the TapTec™ Residential Element Limited Warranty (Form No. 45-D00984-en). Contact a DuPont 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.

Storage

Refer to [Storage and Shipping of New FilmTec™ Elements](#) (Form No. 45-D01633-en) for further information.

Product Stewardship

DuPont 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 DuPont products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

DuPont strongly encourages its customers to review both their manufacturing processes and their applications of DuPont products from the standpoint of human health and environmental quality to ensure that DuPont products are not used in ways for which they are not intended or tested. DuPont personnel are available to answer your questions and to provide reasonable technical support. DuPont product literature, including safety data sheets, should be consulted prior to use of DuPont products. Current safety data sheets are available from DuPont.

Please be aware of the following:

- The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.
- Permeate obtained from the first hour of operation should be discarded.

Regulatory Note

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

Have a question? Contact us at:

www.dupont.com/water/contact-us

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