



LONG LIFE. HALF THE DIAMETER. BETTER FLUID QUALITY.

V-MAX® is a coreless filter that flows from the inside-to-outside like a bag filter but V-MAX® technology can offer the same online life as a bag filter in a vessel that is roughly half the diameter. This is possible since the V-MAX® design offers up to ten times the available filtration media in the same element envelope.

V-MAX® Technology is a novel, and new category of solid-liquid separation, called Coreless Filtration, that was pioneered by Pentair. It enables purification of solid-contaminated streams, offering high-purity, rapid, single-pass processing, while simultaneously reducing overall operating expense and improving operator ergonomics.

In many cases conventional bag filters, stacked disks, and leaf filters can be upgraded to coreless technology.

#### A brief summary of V-MAX®:

- **Effective Contaminant Removal**

The V-MAX® coreless elements utilize high-performance media technology to allow very high efficiency removal of contaminants. It is constructed to allow effective use to high differential pressure.

- **Increased Online Life**

Compared to conventional bag filters V-MAX® can offer 3 – 5 times longer online life at similar effluent fluid quality.

- **Faster Processing**

Due to the improved media technology and the opportunity of effective single-pass purification, V-MAX® purification time can be reduced by up to 90% when performing batch filtration or drumming operations.

- **Improved Operating Ergonomics**

The design of the system enables rapid and easy element installation and replacement.

#### ABOUT US

Pentair designs and manufactures advanced technologies for the high performance separation of solids, liquids and gases. These technologies are used to help facilitate balanced systems that are highly stable, reliable and robust, thereby increasing throughput, reducing operating cost and minimizing waste. The company's technologies help solve the most critical separation and extraction issues for the gas, refining, chemical and power generation industries.



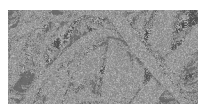
*Filter disposal costs are continually increasing. In some cases, it costs more to dispose of used filters than it did to purchase them! The coreless design of V-MAX elements allow them to be easily collapsed or crushed and occupy less space in disposal containers than cartridge or high surface-area bags.*

*Since more V-MAX filters can fit into disposal containers, disposal costs are reduced. And because there are no metallic components, they can be incinerated for environmentally friendly disposal.*

# **PENTAIR** V-MAX® ELEMENT SPECIFICATIONS



Most bag and cartridge filters are nominally rated. Nominal ratings are arbitrarily set by the manufacturer and are not consistent from one manufacturer to the next. Nominal ratings are widely being replaced with stated efficiency ratings, commonly expressed at a given particle size. Each Porous Media filter grade is Beta rated to values up to 5,000 corresponding to 99.98% efficiency.



NEXCEL® Media

Element Type	V-MAX® coreless fluid process element
Separation Media	Proprietary NEXCEL® media formulation comprised of natural polymeric fibers cross-linked into a Locked Pore Structure™ specifically designed to separate particulate from high flow liquid (aqueous or hydrocarbon) streams
Media Efficiency	$\beta_{10} = 5000$ (99.98%)
End Caps	Nylon
Seals	EPDM O-Rings
Components	Proprietary high temperature epoxy adhesive
Configuration	Single Open End
Dimensions	Nominal Length: 26.5" Nominal O. D.: 6.0"
Ratings	Recommended change out 25-30 PSID (based on process limits) Maximum Temperature: 210° F
Disposal Minimization	Volume of element reduces from 0.43 ft <sup>3</sup> to as low as 0.086 ft <sup>3</sup> (50%-80% reduction) Element totally incinerable.

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