



PENTAIR

PENTEK & INDUSTRIAL FILTRATION SEDIMENT FILTER CARTRIDGES

QUALITY FOR THE MOST BASIC WATER TREATMENT TECHNOLOGY

WATER PURIFICATION

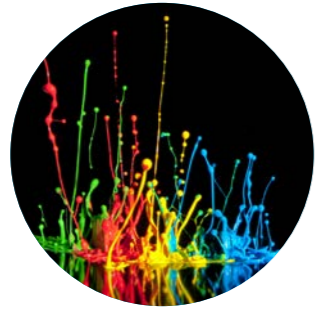
FILTRATION - PENTEK & INDUSTRIAL FILTRATION

Sediment filtration is one of the most basic water treatment option available. This type of filtration is accomplished by mechanically removing solid matters from a fluid stream by trapping particles in a solid media. Sediment filters can be divided in 2 groups depending on the mean of retention used.

Sediment filtration is perfectly suitable for applications such as food and beverage industry or inks, oil, gas and chemicals filtration.



FOOD AND BEVERAGE



INDUSTRY OR INKS



CHEMICALS FILTRATION

THE COMPLETE RANGE OF SEDIMENT FILTER CARTRIDGES

UNDERSTANDING DEPTH VS. SURFACE FILTRATION

	Depth filter cartridges	Surface filter cartridges
Principle	Particles trapped in filter depth	Particles stopped on filter surface
Filtration media	Deep filtration media	Thin filtration media
Applications	- Filtration of larger suspended solids - Large or undefined particle sizes - Prefiltration	- Filtration of finer suspended solids - Narrow or defined particle sizes - Prefiltration and final filtration
Cost	Low (disposable after use)	High (cleanable with hot water or chemicals)
Type of cartridges	Wound and meltblown cartridges	Pleated cartridges

TYPES OF CARTRIDGES

DEPTH FILTER CARTRIDGES

- Wound cartridges

Pentair wound cartridges are manufactured from a cord (in polypropylene or cotton) that is wound around a rigid core. They are the solution to reduce fine sediments including sand, silt, rust and scale particles.

- Meltblown cartridges

Manufactured from polypropylene fibers which have been carefully spun together to form a true gradient density from outer to inner surfaces, Pentair meltblown filters are also used in order to reduce large particles such as dust or sand.

SURFACE FILTER CARTRIDGES

- Pleated cartridges

The media is pleated around a polypropylene core for added strength. This particular structure provides the maximum amount of surface area therefore of dirt holding capacity.

		DEPTH FILTRATION							SURFACE FILTRATION					
		Wound cartridges				Meltblown cartridges			Pleated cartridges					
		SWP series	WWP series	WF series	WC series	P series	Polydepth series	DGD series	S1 series	ECP series	R series	Polyval series	Polyval HE series	SHG series
Benefits														
Benefits		Broad usage within water process applications	Recommended for applications with a higher level of sensitivity to residual surface contaminants	Specially structured fibers offer improved filtration performance	Suitable for use in hydrocarbon and other non aqueous applications	Good filtration efficiency	Very good filtration efficiency. Can be used on hot water applications	"All-in-one", two-layer cartridge eliminates the need for additional filter canisters	Economically priced, recommended for chlorinated water supplies	Provides higher wet strength than regular cellulose cartridges	Reusable, bacteria and chemical resistant	Built with a continuous length pleat structure and supporting outer cage. wide range of filtration efficiencies	Excellent filtration efficiency (up to 98%) for the most demanding applications	Recommended for high temperature and aggressive chemical applications
Technical characteristics	Media	Polypropylene	Washed polypropylene	Fibrilated polypropylene	Cotton	Polypropylene	Polypropylene	Polypropylene	Resin-impregnated cellulose	Cellulose polyester	Non-woven polyester	Polypropylene	Polypropylene	Fiber glass
	Central core	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
	Available length	10" to 40"	10" to 20"	10" to 20"	10" to 40"	4 7/8" to 40"	9 3/4" to 40"	9 3/4" & 20"	9 3/4" & 20"	9 3/4" & 20"	4 7/8" to 20"	9 3/4" to 40"	10" to 20"	9 3/4" to 40"
	Available μ rating nominal	1/5/10/25	5/10/25/50/100	5/10/25/50/100	5/10/25/50/100	1/5/25	1/5/10/25/50	25/1; 50/5; 75/25	20	1/5/20/50	30/50	0.2/0.45/1/5/20	0.2/0.45/1/5/20	0.5/3
	End cap style	DOE	DOE	DOE	DOE	DOE	DOE	DOE	DOE	DOE	DOE	DOE	DOE	DOE
	Available in Big Blue version	Yes	No	Yes	No	No	No	Unique option	Yes	Yes	Yes	No	No	No
	Temperature rating	4.4 - 82.2°C	4.4 - 62.8°C	4.4 - 62.8°C	4.4 - 79.4°C	4.4 - 62.8°C	4.4 - 79.4°C	4.4 - 62.8°C	4.4 - 62.8°C	4.4 - 51.7°C	4.4 - 51.7°C	4.4 - 62.8°C	4.4 - 62.8°C	4.4 - 79.4°C
Filtration efficiency*	•	•	••	•	•	••	•••	••	••	••	••	••	•••	••
Initial pressure drop*	•••	•••	•••	•••	••	•	•	••	••	••	••	••	•	•

*Note: •: good ••: very good •••: excellent

MANUFACTURING SITES

Pentair sediment cartridges are made in 2 different locations each one having its own specialty. Our manufacturing site in Suzhou is the center of expertise

for meltblown filters while Pentair Reynosa in Mexico mainly focuses on pleated cartridges. These 2 Pentair companies are ISO 9001:2008 certified.



Pentair of Reynosa, Mexico



Pentair of Suzhou, China

