

# DW Series Precision Wound Filter Cartridges



The DW series string wound filters protect processes, people and the environment around the world. These depth filters offer a choice of filtration media, support cores, and materials to enable compatibility with most applications. End fitting options allow the retrofitting of most filter housings. Delta Pure Filtration is able to satisfy large orders with fast lead times. For potable water to aggressive chemicals, the DW series cartridges provide progressive depth filtration with high sediment-holding-capacity. Precision winding geometry provides consistent and controlled removal-efficiency.



*DW Series string wound filter cartridges are available in a variety of sizes and configurations.*

Delta Pure DW series string wound filter cartridges provide an economical solution for removal of solid particles from liquids and compressed gasses. Micron ratings are available from 0.5 to 200 for polishing to pre-filtration. Optional core covers allow added particle removal assurance. Cartridges are available in continuous lengths from 4" to 72" and diameters to 4 1/2". Delta Pure Filtration also provides single-round and multi-round filter housings to accept these filters.

## Benefits

- Wide range of materials to ensure process compatibility
- Variety of sizes and configurations to ensure proper sizing, fit and sealing
- High sediment-holding-capacity for longer time between filter cartridges changes
- Continuous lengths up to 72" (183cm)
- Technical support
- Prompt deliveries

## Applications

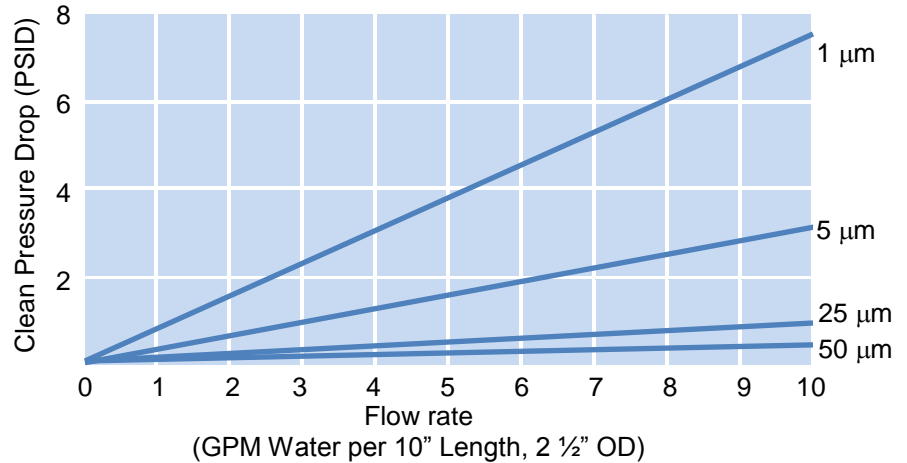
- Potable water
- Process water
- Pre-filtration for membrane/ reverse osmosis (RO) systems
- Food and beverage
- Chemicals, acids, bases
- Oils, fuels and solvents
- Plating solutions, electronics, circuit board
- Produced water and waste water; fracking

## Precision Wound Filter Cartridges



### Pressure Drop vs. Flow Rate

(Polypropylene, Polyester and Nylon Media)



Note: Please consult factory for data on other media and fluids.

### Specifications

Cartridge ID:

1" (2.6 cm) nominal std.  
1.22" (3.1 cm) and 1.5" (3.8 cm) optional

Cartridge OD:

2" (5cm) to 4 1/2" (11.4 cm)

Length

3" (7.6 cm) to 72" (183 cm)  
special lengths available

Efficiency: 90% nominal; 80% at 0.5 micron

Recommended max Change-Out Differential Pressure  
30 PSID (2 bar)

Maximum Differential Pressure  
60 PSID (4 bar)

Max Temperature	Polypro	Polyester	Tin	SST Core
Media	Core	Core	Core	Core
Polypropylene	180 F	180 F	180 F	180 F
Cotton	180 F	250 F	250 F	250 F
Acrylic	180 F	250 F	250 F	250 F
Rayon	180 F	275 F	275 F	275 F
Nylon	180 F	275 F	275 F	275 F
Polyester	180 F	300 F	300 F	300 F
Fiberglass	180 F	300 F	400 F	750 F

2<sup>3</sup>/<sub>8</sub>" OD – 2 1/2" OD Box Quantities: 10" – 30/box; 20", 30", 40" – 15/box;  
50" – 20/box      4 1/2" OD Box Quantities: 10" – 12/box; 20" – 6/box

### Model/Code Ordering Information

CARTRIDGE TYPE	MICRON RATING	FILTER MEDIA	LENGTH INCHES	CORE TYPE	OUTSIDE DIAMETER	OPTIONS	
DW - Precision Wound Filter Cartridge	0.5	01 - FDA Polypropylene	3.75	1 - 1" id Polypropylene	A-2"	N - polyester core cover	
	1	02 - Fibrillated Polypropylene	4	2 - 1" id Glass Filled Polypropylene	B-2 1/4"	NF-acrylic resin bonded glass nonwoven core cover	
	3	03 - Industrial Polypropylene	4.75	3 - 1" id Tinned Steel	C-2 3/8"	NN - nylon core cover	
	5	04 - Natural Cotton + Polyester	5	4 - 1" id 304 SST	D-2 1/2"	Y - polypropylene core cover	
	10	05 - White Cotton	6	6 - 1" id 316 SST	E-2 5/8"	2SP - 222 w/ plug	
	15	06 - FDA Bleached Cotton	9.75	7 - 1" id Nylon	G-3"	2SD - 222 w/ disc	
	20	09 - Rayon	10	8 - 1.22" id Polypropylene	H-4"	2SF - 222 w/ fin	
	25	11 - Nylon	12	9 - 1.5" id Polypropylene	I- 4 1/4"	6SP - 226 w/ plug	
	30	13 - Polyester	12.5	10 - 1.5" id tin steel	J-4 1/2"	6SD - 226 w/ disc	
	50	14 - Acrylic	19.5	11 - 1.5" id 304 sst	nominal diameters	6SF - 226 w/ fin	
	75	15 - Glass Fiber	20	12 - 1.75" id Polypropylene		E - Extended Core	
	100	18 - Polyphenylene Sulfide PPS	24.5			EC - end caps PVC	
	125	20 - Antimicrobial Polypropylene	29.25			ECP - end caps polypro	
	150	21 - Heat resistant meta-aramid	30			P- plug in one end	
	200	21 - Heat resistant meta-aramid Conex® (trademark of Teijin) 33 - EcoWound™ filter *	36				
				40			SPR- polypro spring
				50	O-ring codes (where applicable): default (no code) = BUNA; -E = EPDM;		
			72	-S = Silicone; V = fluorocarbon elastomer; TEV – fluoropolymer-encapsulated fluorocarbon elastomer			

\* Media code 33 contains recycled polypropylene, polyester and cotton.