

Section 3:

**CARTIDGE HOUSING & FILTERS**



# Cartridge Housings and Elements

## Overview



Schroeder has depth filtration cartridges for fine filtration and the housings to fit. Standard cartridges are available in 10, 20, 30 and 40 inch lengths. These meltblown filters come in either a 2.5" or 4.5" diameter. Depth filter cartridges have larger openings towards the outside of the element and smaller openings near the center. This allows for higher dirt holding capacity to lengthen the life of the element.

Most common are the elements with a double open end (DOE). Cartridges with either a 222 o-ring seal or a FIN style are also available. The range of filtration on these elements is from 1 micron up to 100 microns. All of our elements are made from 100% pure polypropylene fibers to ensure high quality. Elements with center tubes for support are also available.

The housings for these elements are available with either a 100% polypropylene head and bowl or in electro-polished stainless steel.

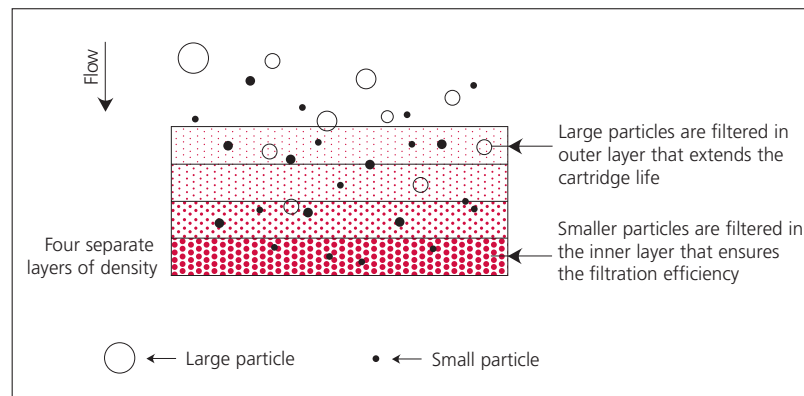
The polypropylene housings accept either the 10" or 20" elements for both 2.5" and 4.5" diameter. The threaded head and bowl allow for quick and easy changing of the elements. Various sizes of NPT ports make installation quick and easy and allow flows up to 40 gpm depending upon the housing size. Because the housings are 100% polypropylene, they are tough and durable. The 2.5" housings are rated up to 125 psi (8.6 bar) at 140°F (60°C) while the 4.5" housings are rated for 100 psi (7.0 bar) at 140°F (60°C).

Stainless steel housings are used for higher flow rates and pressure up to 150 psi (10.0 bar) at 167°F (75°C). These larger housings hold seven elements in a circular array in all four standard lengths. The quick release clamp on the lid allows for easy changing of the elements while providing a tight seal. Each one comes standard with a gauge port in the lid. DOE and 222 style cartridges are accepted by these housings.

Both types of housing are durable, built to last in harsh conditions and have low clean pressure drops.

## Features

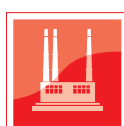
- 100% polypropylene construction
- Max operating temperature 167°F (75°C)
- Max pressure drop 46 psi (3.2 bar) @ 68°F (20°C)
- Recommended cartridge replacement at 22 psi (1.5 bar)
- Special lengths and micron ratings available upon request
- 222 o-ring seal, FIN style end caps and center support tubes available upon request



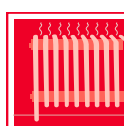
## Industries Served



CHEMICAL  
PROCESSING



INDUSTRIAL



THERMAL  
TRANSFER



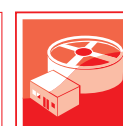
POWER  
GENERATION



PULP & PAPER



STEEL  
MAKING



WASTE WATER  
TREATMENT

# Cartridge Housings and Elements

## CH1

### Cartridge Housing

CH1

CH3 - CH7

1-5 gpm

CH3-CH12

3.6-18.33

CH13-CH173

L/min

125 psi

SW

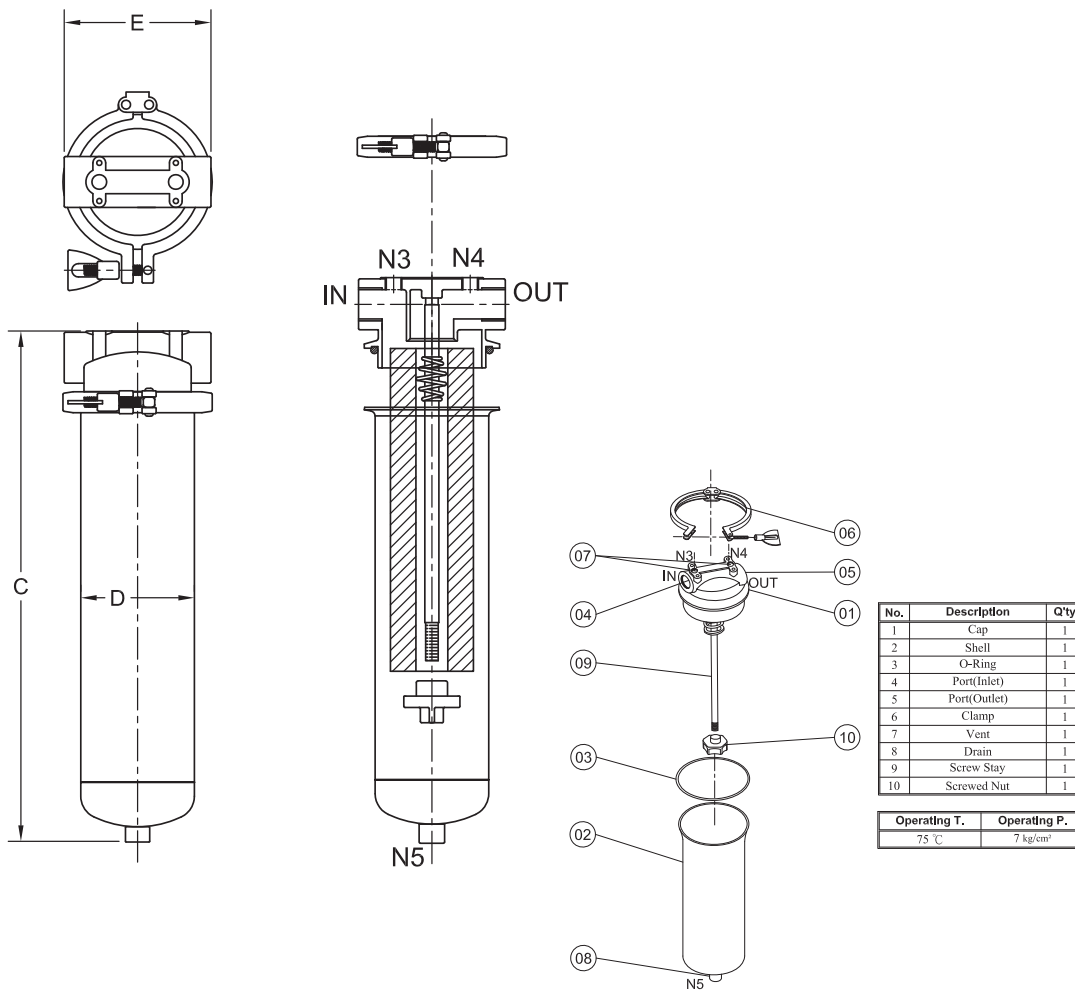
9 bar

DCE/ACE

PP

MTX

RMF



NOTE:  
Drawings may change without notice. Contact factory for certified drawings.

Model	C inch (mm)	D inch (mm)	E inch (mm)	N3/N4	N5
CH1210	15.8 (401.32)	3.5 (88.9)	4.5 (114.3)	1/4"	1/4"
CH1220	25.8 (655.32)	3.5 (88.9)	4.5 (114.3)	1/4"	1/4"
CH1230	35.8 (909.32)	3.5 (88.9)	4.5 (114.3)	1/4"	1/4"

### Dimensions

	CH12
Max. Flow Rate:	5-10 gpm (18.33 to 36.66 L/min)
Max. Working Pressure:	100 psi (7 bar)
Max Temperature:	167°F (75°C)
Housing Material:	Polypropylene
O-Ring Material:	Buna N
Initial Pressure Drop:	1 psi at 10 gpm
Type of Element Accepted	DOE

### Specifications

## Cartridge Housings and Elements

Filter  
Model  
Number  
Selection

### How to Build a Valid Model Number for a Single Cartridge PP Housing 2.5":

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
CH								

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	
CH	1	2	10	PP	04	B	1	V	= CH1210PP04B1V

BOX 1	BOX 1	BOX 3	BOX 4
<b>Filter Series</b>	<b># of Cartridges</b>	<b>Cartridge Diameter</b>	<b>Cartridge Length</b>
CH	1	2 = 2" diameter	10 = 10" 20 = 20" 30 = 30" 40 = 40"

BOX 5	BOX 6	BOX 7	BOX 8
<b>Housing Material</b>	<b>Connection</b>	<b>O-Ring</b>	<b>Pressure</b>
PP* = Polypropylene head and bowl 4 = SUS304 6 = SUS316	04 = 1/2" 06 = 3/4" 10 = 1"	B = Buna N E = EPDM S = Silicone V = Viton	0 = 100 psi 1 = 150 psi

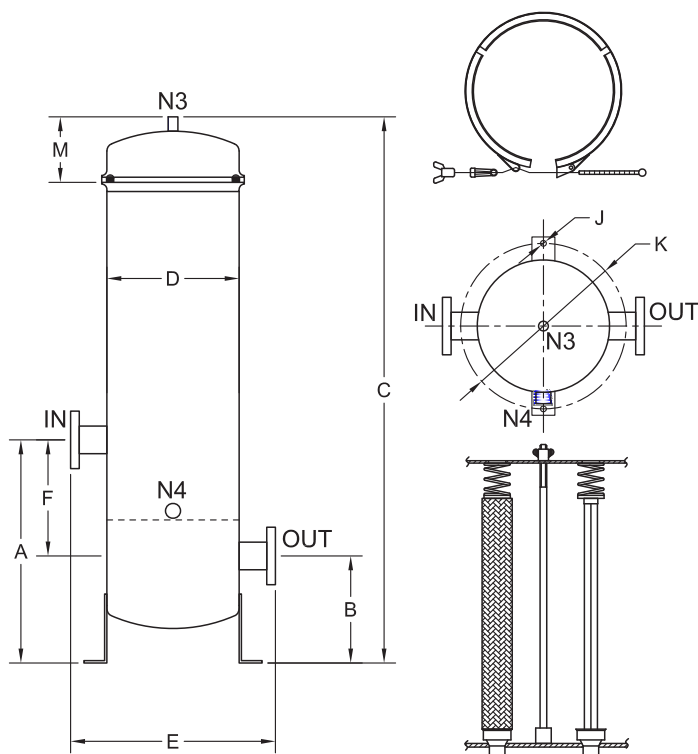
\*Polypro is only available in 100 psi.

BOX 9
<b>Options</b>
N = Flat Bottom P = PR Button in Cap V = Drain with Plug

# Cartridge Housings and Elements

## CH3-CH7



NOTE: Drawings may change without notice. Contact factory for certified drawings.

0-123 gpm CH1

0-467 L/min CH3-CH7

100 psi CH3-CH12

7 bar CH13-CH173

150 psi SW

10 bar DCE/ACE



PP

MTX

RMF

### Dimensions

	Cartridge		A inch (mm)	B inch (mm)	C inch (mm)	D øinch (mm)	E inch (mm)	F inch (mm)	J øinch (mm)	K øinch (mm)	M inch (mm)	N3 inch	N4 inch
	Qty	Length											
CH3220	3	20	11.02 (280)	4.72 (120)	35.04 (890)	7.09 (180)	11.81 (300)	6.30 (160)	0.35 (9)	9.29 (236)	3.35 (85)	¼	¾
CH3230	3	30	11.02 (280)	4.72 (120)	45.08 (1145)	7.09 (180)	11.81 (300)	6.30 (160)	0.35 (9)	9.29 (236)	3.35 (85)	¼	¾
CH7220	7	20	11.02 (280)	4.72 (120)	35.04 (890)	9.13 (232)	13.86 (352)	6.30 (160)	0.35 (9)	9.29 (236)	3.35 (85)	¼	¾
CH7230	7	30	11.02 (280)	4.72 (120)	45.08 (1145)	9.13 (232)	13.86 (352)	6.30 (160)	0.35 (9)	9.29 (236)	3.35 (85)	¼	¾
CH7240	7	40	11.02 (280)	4.72 (120)	55.12 (1400)	9.13 (232)	13.86 (352)	6.30 (160)	0.35 (9)	9.29 (236)	3.35 (85)	¼	¾

Number of Elements per Housing: 3 or 7 Elements, 2" Diameter

Max. Working Pressure: 100 psi (7 bar)

Max Temperature: 167°F (75°C)

Housing Material: Stainless Steel (304 or 316)

Type of Elements Accepted: DOE (Double Open Ended), -222 O-ring

### Specifications

## Cartridge Housings and Elements

**Flow Rate and Weight**

Model #	Flow Rate	Dry Weight
CH3220	0-26 gpm (100 l / min)	40 lbs (18kg)
CH3230	0-40 gpm (150 l / min)	44 lbs (20kg)
CH7220	0-62 gpm (233 l / min)	55 lbs (25kg)
CH7230	0-92 gpm (350 l / min)	62 lbs (28kg)
CH7240	0-123 gpm (467 l / min)	68 lbs (31kg)

**Filter Model Number Selection**

**How to Build a Valid Model Number for a Multi-Cartridge Housing, 100 psi:**

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
CH								

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
CH	4	2	10	6	15	B	0	7

= CH14210615B07

BOX 1	BOX 2	BOX 3	BOX 4
<b>Filter Series</b>	<b># of Cartridges</b>	<b>Cartridge Diameter</b>	<b>Cartridge Length</b>
CH	3 = 3 pieces 4 = 4 pieces 12 = 12 pieces	2 = 2" diameter	05 = 5" 10 = 10" 20 = 20" 30 = 30" 40 = 40"

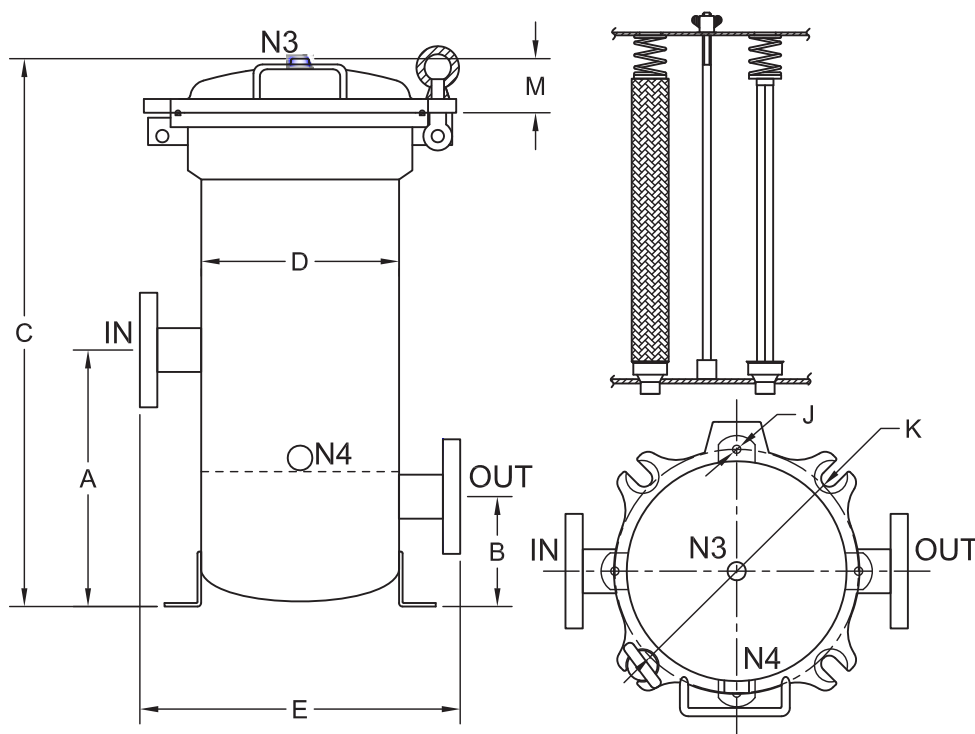
BOX 5	BOX 6	BOX 7	BOX 8
<b>Housing Material</b>	<b>Connection</b>	<b>O-Ring</b>	<b>Pressure</b>
4 = SUS304 6 = SUS316 7 = SUS316L	10 = 1" 15 = 1.5" 20 = 2" 25 = 2.5" 30 = 3" 40 = 4"	B = Buna N E = EPDM S = Silicone V = Viton	0 = 100 psi 1 = 150 psi

BOX 9
<b>Options</b>
1 = Standard Flat Gasket Double Open Ends & 2 - 222 O-ring Fin/Flat 7 = No Bayonet 2-226 O-ring Fin/Flat 9 = 2-226 O-ring Fin/Flat

NOTE: Elements must be purchased separately.

# Cartridge Housings and Elements

## CH3-CH12



NOTE: Drawings may change without notice. Contact factory for certified drawings.

**150 psi**  
**10 bar**

CH1

CH3 - CH7

**CH3-CH12**

CH13-CH173

SW

DCE/ACE

PP

MTX

RMF

	Cartridge		A inch (mm)	B inch (mm)	C inch (mm)	D øinch (mm)	E inch (mm)	J øinch (mm)	K øinch (mm)	M inch (mm)	N3 inch	N4 inch
	Qty	Length										
CH3220	3	20	11.02 (280)	4.72 (120)	33.19 (843)	7.13 (181)	11.81 (300)	0.35 (9)	10.47 (266)	2.17 (55)	¼	¾
CH3230	3	30	11.02 (280)	4.72 (120)	43.23 (1098)	7.13 (181)	11.81 (300)	0.35 (9)	10.47 (266)	2.17 (55)	¼	¾
CH3240	3	40	11.02 (280)	4.72 (120)	53.27 (1353)	7.13 (181)	11.81 (300)	0.35 (9)	10.47 (266)	2.17 (55)	¼	¾
CH7220	7	20	11.02 (280)	4.72 (120)	33.58 (853)	9.13 (232)	14.09 (358)	0.35 (9)	11.34 (288)	2.56 (65)	¼	¾
CH7230	7	30	11.02 (280)	4.72 (120)	43.62 (1108)	9.13 (232)	14.09 (358)	0.35 (9)	11.34 (288)	2.56 (65)	¼	¾
CH7240	7	40	11.02 (280)	4.72 (120)	53.66 (1363)	9.13 (232)	14.09 (358)	0.35 (9)	11.34 (288)	2.56 (65)	¼	¾

### Dimensions

Number of Elements per Housing: 3 or 12 Elements, 2" Elements

Max. Working Pressure: 150 psi (10 bar)

Max Temperature: 167°F (75°C)

Housing Material: Stainless Steel (304 or 316)

Type of Elements Accepted: DOE (Double Open Ended), -222 O-ring

### Specifications

## Cartridge Housings and Elements

**Flow Rate  
Volume  
and Weight**

Model #	Flow Rate	Volume	Dry Weight
CH3220	0-26 gpm (100 l / min)	7.13 gal (27L)	66 lbs (30kg)
CH3230	0-40 gpm (150 l / min)	9.51 gal (36L)	77 lbs (35kg)
CH3240	0-53 gpm (200 l / min)	11.88 gal (45L)	88 lbs (40kg)
CH7220	0-62 gpm (233 l / min)	8.98 gal (34L)	77 lbs (35kg)
CH7230	0-92 gpm (350 l / min)	11.88 gal (45L)	88 lbs (40kg)
CH7240	0-123 gpm (467 l / min)	14.52 gal (55L)	101 lbs (46kg)

**Filter  
Model  
Number  
Selection**

### How to Build a Valid Model Number for a Multi-Cartridge Housing, 100 psi:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
CH								

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
CH	4	2	10	6	15	B	0	7

= CH14210615B07

BOX 1	BOX 2	BOX 3	BOX 4
<b>Filter Series</b>	<b># of Cartridges</b>	<b>Cartridge Diameter</b>	<b>Cartridge Length</b>
CH	3 = 3 pieces 4 = 4 pieces — Up To — 12 = 12 pieces	2 = 2" diameter	10 = 10" 20 = 20" 30 = 30" 40 = 40"
BOX 5	BOX 6	BOX 7	BOX 8
<b>Housing Material</b>	<b>Connection</b>	<b>O-Ring</b>	<b>Pressure</b>
4 = SUS304 6 = SUS316 7 = SUS316L	10 = 1" 15 = 1.5" 20 = 2" 25 = 2.5" 30 = 3" 40 = 4"	B = Buna N E = EPDM S = Silicone V = Viton	1 = 150 psi
BOX 9			
<b>Options</b>			
1 = Standard Flat Gasket Double Open Ends & 2 - 222 O-ring Fin/Flat 7 = No Bayonet 2-226 O-ring Fin/Flat 9 = 2-226 O-ring Fin/Flat			

NOTE: elements must be purchased separately.



# Cartridge Housings and Elements

## CH13-CH173

5-40 gpm CH1  
 18.33-150 L/min CH3 - CH7

**150 psi** CH3 -CH12  
**10 bar** **CH13-CH173**

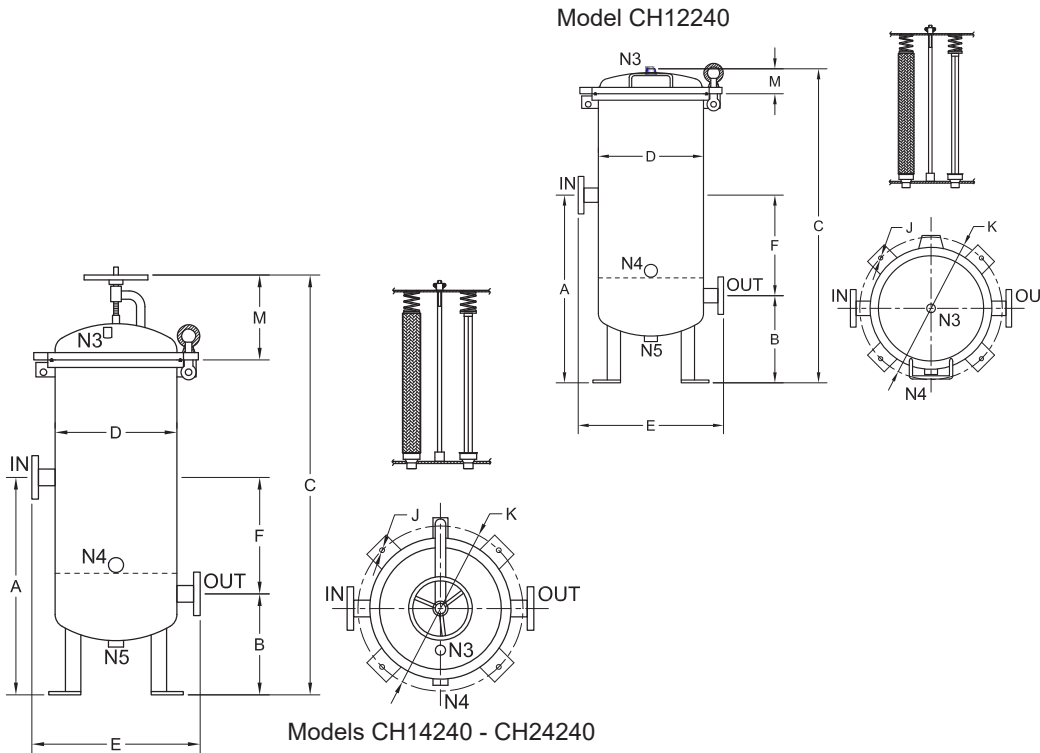
SW

DCE/ACE

PP

MTX

RMF



### Dimensions

	Cartridge		A inch (mm)	B inch (mm)	C inch (mm)	D øinch (mm)	E inch (mm)	J øinch (mm)	K øinch (mm)	M inch (mm)	N3 inch	N4 inch
	Qty	Length										
CH12240	12	40	27.56 (700)	13.78 (350)	68.03 (1728)	12.01 (305)	19.69 (500)	0.55 (14)	16.14 (410)	6.02 (153)	½	1
CH14240	14	40	27.56 (700)	13.78 (350)	76.77 (1950)	15.98 (406)	23.86 (606)	0.55 (14)	20.31 (516)	14.96 (380)	½	1
CH18240	18	40	27.56 (700)	13.78 (350)	76.77 (1950)	15.98 (406)	23.86 (606)	0.55 (14)	20.31 (516)	14.96 (380)	½	1
CH20240	20	40	27.56 (700)	13.78 (350)	76.77 (1950)	15.98 (406)	23.86 (606)	0.55 (14)	20.31 (516)	14.96 (380)	½	1
CH24240	24	40	27.56 (700)	13.78 (350)	76.97 (1955)	19.13 (486)	27.01 (686)	0.55 (14)	23.46 (596)	15.16 (385)	½	1

### Specifications

Number of Elements per Housing: 12, 14, 18, 20, or 24, 2" Diameter

Max. Working Pressure: 150 psi (10 bar)

Max Temperature: 167°F (75°C)

Housing Material: Stainless Steel (304 or 316)

\*Max flow rate is dependent on type of media, particle selection required, fluid viscosity and volume of contamination.

## Cartridge Housings and Elements

**Flow Rate  
Volume  
and Weight**

Model #	Flow Rate	Volume	Dry Weight
CH12240	0-200 gpm (755 l / min)	28.00 gal (107L)	187 lbs (85kg)
CH14240	0-240 gpm (900 l / min)	50.00 gal (198L)	275 lbs (125 kg)
CH18240	0-310 gpm (1170 l / min)	50.00 gal (198L)	275 lbs (125 kg)
CH20240	0-350 gpm (1320 l / min)	50.00 gal (198L)	275 lbs (125 kg)
CH24240	0-415 gpm (1565 l / min)	75.00 gal (286L)	320 lbs (145 kg)

**Filter  
Model  
Number  
Selection**

**How to Build a Valid Model Number for a Multi-Cartridge Housing:**

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
CH								

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
CH	13	2	10	6	15	B	1	7

= CH13210615B17

BOX 1	BOX 2	BOX 3	BOX 4
<b>Filter Series</b>	<b># of Cartridges</b>	<b>Cartridge Diameter</b>	<b>Cartridge Length</b>
CH	13 = 13 pieces 14 = 14 pieces 15 = 15 pieces — Up To — 173 = 173 pieces	2 = 2" diameter	10 = 10" 20 = 20" 30 = 30" 40 = 40"

BOX 5	BOX 6	BOX 7	BOX 8
<b>Housing Material</b>	<b>Connection</b>	<b>O-Ring</b>	<b>Pressure</b>
4 = SUS304 6 = SUS316 7 = SUS316L	10 = 1" 15 = 1.5" 20 = 2" 25 = 2.5" 30 = 3" 40 = 4" Z = 10" Z1 = 11" — Up To — Z5 = 15"	B = Buna N E = EPDM S = Silicone V = Viton	1 = 150 psi

BOX 9
<b>Options</b>
1 = Standard Flat Gasket Double Open Ends & 2 - 222 O-ring Fin/Flat 7 = No Bayonet 2-226 O-ring Fin/Flat 9 = 2-226 O-ring Fin/Flat

# SW Series Precision Wound Filter Cartridges

SW

## 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" (183 cm)
- 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

**Media:** Polypropylene  
Cotton  
Acrylic  
Rayon  
Nylon  
Polyester  
Fiberglass

**Cartridge ID:** 1.09" (2.8 cm) nominal std.  
1.22" (3.1 cm) and 1.5" (3.8 cm) optional

**Cartridge OD:** 2" (5 cm) to 4½" (11.4 cm)

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

**Efficiency:** 90% nominal; 80% below 3 micron

**Maximum Differential Pressure:** 60 PSID (2 bar)

**Recommended Max Change-Out Differential Pressure:** 30 PSID (2)

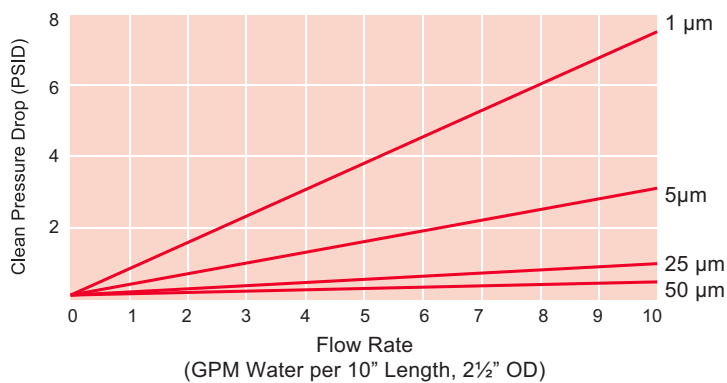
**Note:** Please contact factory for data on other media and fluids

### Max Temperature

Media	Polypro Core	Polyester Core	Tin Core	SST 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

### Pressure Drop vs. Flow Rate

(Polypropylene, Polyester and Nylon Media)



CH1

CH3 - CH7

CH3 -CH12

CH13-CH173

SW

DCE/ACE

PP

MTX

RMF

# SW Series Precision Wound Filter Cartridges

**Filter Model Number Selection**

**How to Build a Valid Model Number for Cartridge Housings and Elements:**

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7
SW						

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	
SW	3	10	30	6	D	EC	= SW310306DEC

BOX 1	BOX 2	BOX 3	BOX 4
<b>Cartridge Type</b>	<b>Micron Rating</b>	<b>Filter Media</b>	<b>Length (in.)</b>
SW = Precision Wound Filter Cartridge	0.5 1 3 5 10 15 20 25 30 50 75 100 125 150 200	01 = FDA Polypropylene 02 = Fibrillated Polypropylene 03 = Industrial Polypropylene 04 = Natural Cotton + Polyester 05 = White Cotton 06 = FDA Bleached Cotton 09 = Rayon 10 = Teflon 11 = Nylon 13 = Polyester 14 = Acrylic 15 = Glass Fiber 18 = Polyphenylene Sulfide PPS 20 = Antimicrobial Polypropylene Heat resistant 21 = meta-aramid Conex® (trademark of Teijin) 33 = EcoWound™ filter*	3.75 4 4.75 5 6 9.75 10 12 12.5 19.5 20 24.5 30 36 40 50 72

BOX 5	BOX 6	BOX 7
<b>Core Type</b>	<b>Outside Diameter</b>	<b>Options</b>
1 = 1" id Polypropylene 2 = 1" id Glass Filled Polypropylene 3 = 1" id Tinned Steel 4 = 1" id 304 SST 6 = 1" id 316 SST 7 = 1" id Nylon 8 = 1.22" id Polypropylene 9 = 1.5" id Polypropylene 10 = 1" id Teflon 11 = 1.5" id 304 SST 12 = 1.75" id Polypropylene 13 = 1.5" id Tin Steel	A = 2 B = 2 1/4" C = 2 3/8" D = 2 1/2" E = 2 5/8" G = 3" H = 4" I = 4 1/4" J = 4 1/2"	N = Polyester Core Cover NF = Acrylic Resin Bonded Glass Nonwoven Core Cover NN = Nylon Core Cover Y = Polypropylene Core Cover 2SP = 222 w/ plug 2SD = 222 w/ disc 6SP = 226 w/ plug 6SD = 226 w/ disc 6SF = 226 w/ fin E = Extended Core EC = End Caps PVC ECP = End Caps Polypro P = Plug In One Hand SPR = Polypro Spring

<b>Media:</b>	Polypropylene
<b>Material:</b>	100% Meltblown Micro PP Fiber
<b>Absolute Micron Ratings:</b>	1µm, 3µm, 5µm, 10µm, 20µm, 25µm, 30µm, 50µm, 75µm, 100µm, 150µm
<b>Inside Diameter:</b>	1.1 inch (28 mm)
<b>Outside Diameter:</b>	2.5 inch (63 mm)
<b>Maximum Differential Pressure and Temperature:</b>	58 psi at 68°F (4 bar at 20°C) 29 psi at 140°F (2 bar at 60°C) 14 psi at 176°F (1 bar at 80°C)
<b>Element Change Out:</b>	29 psid (2.1 bar diff)
<b>Maximum Operating Temperature:</b>	160°F (70°C)
<b>Efficiency:</b>	99.98%

CH1

CH3 - CH7

CH3 -CH12

CH13-CH173

SW

**DCE/ACE**

PP

MTX

RMF

## Filter Model Number Selection

### How to Build a Valid Model Number for Cartridge Housings and Elements:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	
ACE	3	10	B	E	NA	= ACE310BENA

BOX 1

BOX 2

BOX 3

BOX 4

Element
DCE = Polypropylene Coreless
ACE = Polypropylene with core Polypropylene

Micron Rating
S2 = 0.2 µm
S45 = 0.45 µm
1 = 1 µm
2 = 2 µm
5 = 5 µm
10 = 10 µm
20 = 20 µm
40 = 40 µm

Length (in.)
10 = 10.0"
20 = 20.0"
30 = 30.0"
40 = 40.0"

End Cap Code
B = DOE w/ Gasket and Caps
C = 222 w/ Spear
D = 222 w/ Closed Flat Cap
E = 222 w/ Spring
F = 226 w/ Closed Flat Cap
G = 226 w/ Spear
H = 226 w/ Spring
J = Polypropylene Extender
L = Spring
N = SOE Recessed Cap, internal 213 O-Ring
Omit = DOE for knife edge seal
2SD = SOE, 222 O-ring seal, w/ flat top*
2SF = SOE, 222 O-ring, w/ fin*
2SPR = SOE, 222 O-ring seal, w/ spring top*
6SD = SOE, 226 O-ring seal, w/ flat top*

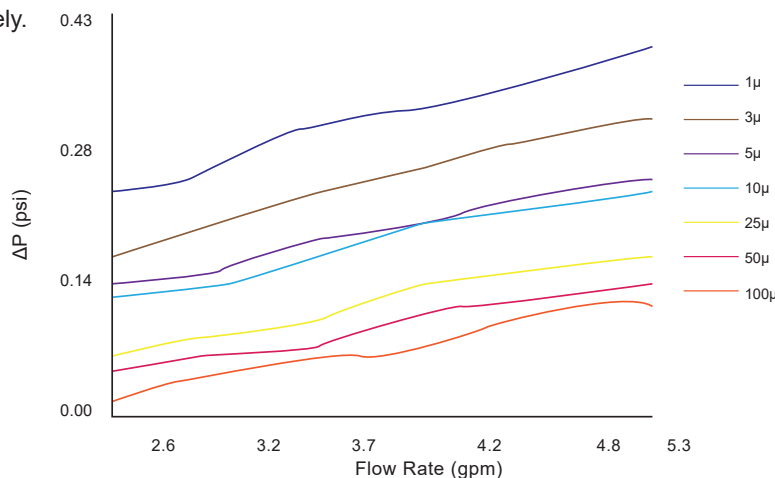
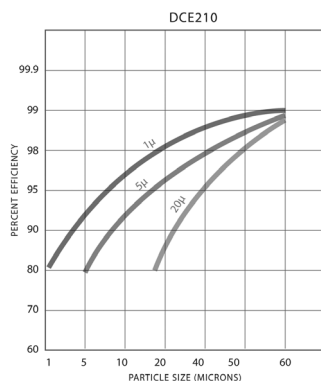
BOX 5

O-Rings
Omit = None
B = Buna N
E = EPDM (EPR)
S = Silicone
V = FKM Fluorolastomer

BOX 6

Certification
Omit = None
NA = NSF/ANSI 61 w/ core only

Filter and Media are sold separately.



## Filter Data

# High Purity/Absolute Pleated Cartridges

**35 psi**  
**2.4 bar**

Our Pleated Polypropylene Cartridges are designed to hold 6.5 square feet of filtration media, making these a great value. These cartridges are constructed with 100% polypropylene materials and are assembled using the latest thermal bonding equipment. Efficiency Rating is 99.98% (β5000) for Absolute, 95% Efficiency Rating for High Efficiency.



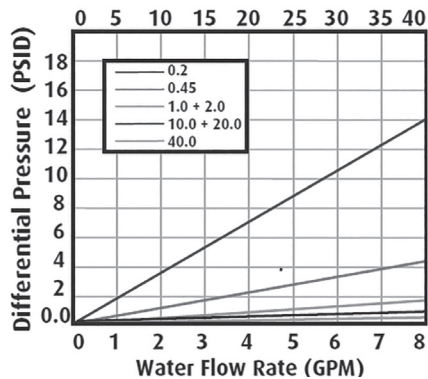
**Typical Applications:**

- Optimal for DEF Solutions
- Food and Beverage
- Photographic
- Deionized Water
- Reverse Osmosis Membrane
- Prefiltration
- Process Water
- Fine Chemicals
- Wastewater

**Specifications**

<b>Media:</b>	Polypropylene, FDA Borosilicate Microfiberglass
<b>Material:</b>	100% Meltblown Micro PP Fiber
<b>End Caps:</b>	Polypropylene
<b>Center Core:</b>	Polypropylene
<b>Outer Support Cage:</b>	Polypropylene
<b>O-Rings/Gaskets:</b>	Buna, Viton®, EPDM
<b>Length:</b>	10 to 40 in. (25.4 to 101.6 cm) nominal
<b>Outside Diameter:</b>	2.5 in. (7.0 cm) nominal
<b>Element Change Out:</b>	35 psi (2.4 bar)
<b>Maximum Operating Temperature:</b>	180°F (82°C)
<b>Efficiency:</b>	99.98%

**Pressure Drop Information Based on Flow Rate and Viscosity**



# High Purity/Absolute Pleated Cartridges

**PP**

**Filter Model Number Selection**

- CH1
- CH3 - CH7
- CH3 -CH12
- CH13-CH173
- SW
- DCE/ACE
- PP**
- MTX
- RMF

**How to Build a Valid Model Number for a High Purity Pleated Polypropylene Cartridge:**

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	
PPC	05	40	D	T	S	= PPC0540DTS

BOX 1	BOX 2	BOX 3	BOX 4
<b>Element</b>	<b>Micron Rating</b>	<b>Length (in.)</b>	<b>End Cap Code</b>
PPC = Pleated polypropylene High Efficiency PPAC = Pleated polypropylene Absolute	S2 = 0.2 µm S45 = 0.45 µm 1 = 01 µm 2 = 02 µm 5 = 05 µm 10 = 10 µm 20 = 20 µm 40 = 40 µm	10 = 10.0" 20 = 20.0" 30 = 30.0" 40 = 40.0"	B = DOE w/ Gasket and Caps C = 222 w/ Spear D = 222 w/ Closed Flat Cap E = 222 w/ Spring F = 226 w/ Closed Flat Cap G = 226 w/ Spear H = 226 w/ Spring J = Polypropylene Extender L = Spring N = SOE Recessed Cap, internal 213 O-Ring

BOX 5	BOX 6
<b>O-Rings</b>	<b>Options</b>
B = Buna E = EPDM S = Silicone V = Viton T = Teflon Encapsulated Viton	I = Stainless Steel E = EPDM insert S = Silicone HP - Heavy Poly Core

**50 psi**  
**3.5 bar**



Economical Depth Filtration at higher flow rates and higher viscosities. Schroeder cartridges have a two-stage filtration design to maximize particle removal and service life in viscous fluid filtration applications.

Schroeder cartridges are available in several different micron ratings including 1, 2, 3, 5, 10, 25, 50, 75, 100, 125, 150, 200 and 250 to meet a wide variety of performance requirements.

### Benefits

The unique winding of continuous polyester media makes it possible to provide:

- Same rigid structure as industry standard resin bonded without the environmentally harmful phenolic resin
- True gradient density
- Consistent particle removal efficiencies
- Extended cartridge life
- PH range from 4 to 10 in most applications
- Extensive chemical compatibility
- Wide range of effective applications
- Silicon free construction ensures no contamination to adversely affect adhesion properties of coatings
- Outer layers collect large particles, while inner layers control particle removal at rated size
- Available with optional end treatments
- Withstands pressure surges up to 100psi across cartridge
- Unique polyester media formulation strengthens cartridge for use with fluid viscosities up to 15000 SSU

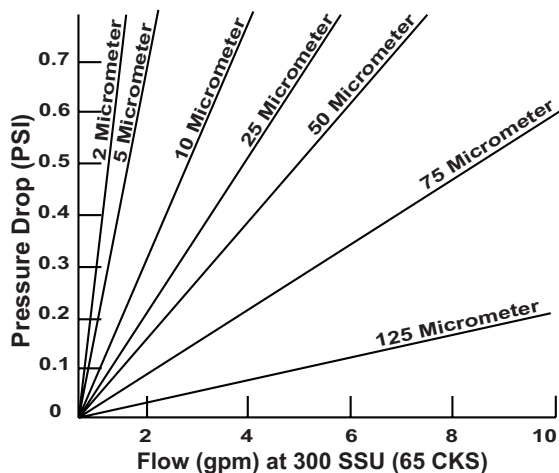
### Typical Applications

- Abrasives
- Adhesives
- Animal Oils
- Chemical coatings
- Emulsions
- Injection Well
- Organic Fluids
- Organic Solvents
- Paints
- Petroleum
- Plasticizers
- Printing Inks
- Process Water
- Resins
- Waxes

### Specifications

<b>Media:</b>	Polyester
<b>Material:</b>	Resin Bonded Polyester
<b>End Caps:</b>	Polypropylene or 316 SS
<b>Center Core:</b>	304 SS, 316 SS, Tin
<b>Length:</b>	9.75 to 40 in. (24.77 to 101.6 cm) nominal
<b>Outside Diameter:</b>	2.70 in. (6.89 cm) nominal
<b>Inside Diameter:</b>	1.06 in. (2.69 cm) nominal
<b>Element Change Out:</b>	50 psi (3.5 bar)
<b>Maximum Operating Temperature:</b>	250°F (121°C)
<b>Efficiency:</b>	90%

### Pressure Drop





# MTX Resin Bonded Filters



How to Build a Valid Model Number for a High Purity Pleated Polypropylene Cartridge:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	
MTX	50	A	9.8	T	K	= MTX50A9.8TK

BOX 1	BOX 2	BOX 3	BOX 4
<b>Element</b>	<b>Micron Rating</b>	<b>Cartridge Diameter</b>	<b>Length</b>
MTX = Polyester	1 = 01 µm 2 = 02 µm 3 = 03 µm 5 = 05 µm 10 = 10 µm 25 = 25 µm 50 = 50 µm 75 = 75 µm 100 = 100 µm 125 = 125 µm 150 = 150 µm 200 = 200 µm 250 = 250 µm	A = Standard 2.5"	9.8 = 9.75" 10 = 10" 19.5 = 19.5" 20 = 20" 29 = 29" 29.3 = 29.25" 29.5 = 29.5" 30 = 30" 39 = 39" 40 = 40"

BOX 5	BOX 6
<b>Core Options</b>	<b>End Caps</b>
A = 304 SS S = 316 SS T = Tin Core	Blank = DOE J = Polypropylene Extender K = Ext Crimped Core L = Spring M = 316 SS Metal Extender

Filter Model Number Selection

- CH1
- CH3 - CH7
- CH3 -CH12
- CH13-CH173
- SW
- DCE/ACE
- PP
- MTX**
- RMF

