

Selex* depth cartridge filters



figure 1: Selex depth cartridge filters

description and use

The Selex* (SX) cartridge filter (Figure 1) is a high precision graded density cartridge constructed of 100% pure polypropylene. Selex provides a very high particle retention efficiency that equates to the performance of absolute rated filters. The patented Selex manufacturing process controls the density and fiber size, which are key to the filter's performance and long life. Selex cartridge filters have sharp efficiency cutoff, fast rinse up for exceptional purity, and continuous, weld free lengths up to 40 inches (101.6 cm).

typical applications

- Magnetic Media (CMP) – solvents, slurry/dispersion, Pre-Filter and Final Filter at Coater
- Photographic – Incoming Water, Liquid Chemicals, Developer, Fixer, Stopper Solutions
- Petrochemicals – Waterflood, Completion, Enhanced Oil Recovery, Amines
- Chemical Process Industry – Reagent Grade Chemicals, Process Water
- Pure Water – Pre-RO, Post- DI Resin Trap
- Food and Beverage – Clarification, Process Water, Polishing Filter

- Metal Finishing – Electrodeposition Paint, Precision Electroplating
- Potable Water- Polishing Filter
- Pharmaceuticals – Clarify Production Broths, Prefiltration
- Oil and gas – well protection

general properties

Selex filters are available the following absolute pore size micron ratings: 1, 3, 5, 10, 20 and 30 microns. Tables 1, 2, 3 and 4 show further details on materials of construction, dimensions, flow performance and performance specifications.

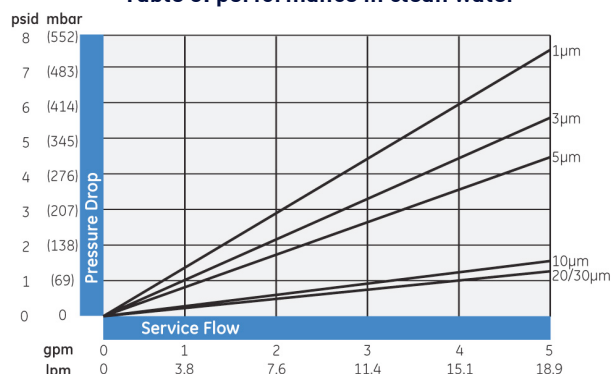
table 1: materials of construction

description	material of construction
Filtration Media	Polypropylene
Endcaps and Adapters	Polypropylene

table 2: dimensions

nominal O.D.	nominal I.D.	maximum operating temperature
2.75" (70 mm)	1.25" (31 mm)	140°F (60°C)

Table 3: performance in clean water¹



¹data based on 10" length filter

table 4: performance specifications

selex grade	micron rating	for general applications removal rating (µm) at various efficiencies					for critical applications removal rating (µm) where β = 5000	
		90%	95%	98%	99%	99.5%		
E	1	0.5	0.7	0.9	1.0	1.3	E	1.8
G	3	1.1	1.3	1.8	2.0	2.4	G	3.0
D	5	1.5	1.8	2.9	4.3	5.0	D	6.5
A	10	3.2	5.2	7.3	8.4	9.7	A	11.0
C	20	15.1	17.5	18.9	19.3	20.0		
F	30	16.6	18.9	20.8	24.2	32.1		

additional information

Selex depth cartridge filters are made from thermally-bonded fibers of polypropylene. SUEZ certifies that it uses no resin binders, lubricants, antistatic or release agents or other additives in the manufacture of these cartridges, and that the resin used for manufacturing the filter media meets the food contact requirements of the U.S. FDA 21CFR regulations. When required, specify only FDA compliant sealing materials and end adapters.

SUEZ filter cartridges are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility.

Please contact your SUEZ distributor for more information.

ordering information

Table 5 contains ordering information. To configure a standard Selex filter with no adapters on either end, select one item from each of the first three columns. Your model number may look like this: SXD-29 1/4.

To order Selex filters with end adapters, add one item from the last 2 columns to your filter selection (use all 6 columns). Your model number may look like this: SXD-29 1/4 YYP (see example below) or SXD-29 1/4 XK.

table 5: ordering information

type	micron rating	nominal cartridge length	end #1 adapter	end #2 adapter	elastomer material
SXE	01 = 1 µm	9 ¾ inch (24.8 cm)	Y = 1 inch (2.54 cm) Open End Gasket	Y = 1 inch (2.54 cm) Open End Gasket	Gasket
SXG	03 = 3 µm	9 7/8 inch (25.1 cm)	L = Extended Care	K = Self Seal Spring	P = Santoprene ²
SXD	05 = 5 µm	10 inch (25.4 cm)	E = 222 O-Ring	H = Fin	O-Rings
SXA	10 = 10 µm	19 ½ inch (49.5 cm)	F = 226 O-Ring	S = Solid End	S = Silicone
SXC	20 = 20 µm	20 inch (50.8 cm)	X = Standard Plain End		E = EPDM
SXF	30 = 30 µm	29 ¼ inch (74.3 cm)			B = Buna
		30 inch (76 cm)			V = Viton ³
		40 inch (101.6 cm)			

When using filter types SXE, SXG, or SXD with a knife-edge seal, an elastomeric gasket is recommended to retain highest efficiencies possible.

²Santoprene is a registered trademark of Advanced Elastomer Systems, L.P.

³Viton are registered trademarks of DuPont.



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