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John Mulhern Co.
QUALITY FIRST SINCE 1880
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DEPTH FILTER CARTRIDGES

These cartridges are designed for general purpose use wherever a cost effective filter is required:

GDMB Melt blown cartridge

GDMB Melt blown cartridges are manufactured by a continuous spun bonding technology that assures a consistent product. 100% all polypropylene construction gives wide chemical compatibility and extremely low extractables. These cartridges offer exceptional value in both removal efficiency and dirt holding capacity where protection of more expensive membrane filters is important.

XSPD Bicomponent Media filter cartridges

XSPD Bicomponent Media filter cartridges have been designed to hold large amounts of contaminant and still provide 95% retention efficiencies at the rated pore size. These cartridges can be used wherever a high contamination load application requires retention efficiencies above nominal.

NSPD media filter cartridges

NSPD media filter cartridges have been designed to hold large amounts of contaminant and still provide 99% retention efficiencies at the rated pore size. These cartridges can be used wherever a high contamination load application requires retention efficiencies above nominal.

ROMB Melt Blown cartridges

ROMB Melt Blown cartridges are manufactured by a continuous spun bonding technology that assures a consistent product. 100% all polypropylene construction gives a wide chemical compatibility and extremely low extractables. A workhorse in RO and DI systems offering both removal efficiency and dirt holding capacity where protection of membranes is important.

CRITICAL PROCESS FILTRATION, INC.

GDMB® grade

Polypropylene Melt Blown, Media Filter Cartridges

Distributed by: John Mulhern Company Santa Rosa, Ca
800 761-9201 707 578-5105 fax 707 578-8692 email: info@jmulhern.com

GDMB Melt blown cartridges are manufactured by a continuous spun bonding technology that assures a consistent product. 100% all polypropylene construction gives wide chemical compatibility and extremely low extractables. These cartridges offer exceptional value in both removal efficiency and dirt holding capacity where protection of more expensive membrane filters is important.

Construction Materials [1]

Filtration Media: .....Melt Blown Polypropylene
End Caps: .....Polypropylene
Standard O-rings and Gaskets: ..... EP

[1] All materials of construction are FDA accepted. Final assemblies have been validated to pass USP class 6 Toxicology extractable tests, oxidizable substances for plastics, endotoxin level and other quality tests.

Flow Rate

The following table represents typical water flow at a one psi (69 mbar) pressure differential across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

Maximum Operating Parameters

Forward Differential Pressure: ..... 30 PSI
Reverse Differential Pressure: ..... 20 PSI
Maximum Operating Temperature: ..... 140°F (60°C)

Dimensions

Length: ..... 5 to 40 inches (12.7 to 101.6 cm) nominal
Outside Diameter: .....2.50 inches (6.35 cm) nominal

Pore Size	1.0um	3.0um	5.0um	10um	20um	30um	50um	75um	100um
GPM	3.0	5.0	6.0	7.50	10.0	12.0	› 12	› 12	› 12
LPM	11.35	18.92	22.71	28.39	37.85	45.42	›45.42	›45.42	›45.42

Ordering Information

The cartridge catalog number is made up of several variable characters i.e. pore size, end cap code, length, and O-ring material. For example: a 10µm , 10 inch long cartridge with a Polyethylene Integra, Flat Gasket, Double Open End would be designated as: GDMB10*N00001P0.

GDMB [ ][ ][ ] [N] 0000 [ ] [ ] [ ]

Pore size code
1*0 - 1.0 µm
3*0 - 3.0 µm
5*0 - 5 µm
10* - 10 µm
20* - 20 µm
30* - 20 µm
50* - 50 µm
75* - 75 µm
999 - 100 µm

316 SS Ring
N - No Ring

Cartridge Length
5 - 5 inches (12.7 cm)
1 - 10 inches (25.4 cm)
2 - 20 inches (50.8 cm)
3 - 30 inches (76.2 cm)
4 - 40 inches (101.6 cm)

O-ring code
S - Silicone
B - Buna
V - Viton
T - Teflon® Encapsulated Viton
E - EP
R - Teflon® Encapsulated Silicone
P - Polyethylene Integra
X - No Gasket/O-Ring

End cap code
0 - Flat Gasket, double open end
5 - 2-222 O-Ring / Flat
6 - 2-226 O-Ring / Flat
8 - 2-222 O-ring with Spear
9 - 2-226 O-ring with Spear
41 - SOE with Poly Spring
42 - SOE with Poly Core Extender

CRITICAL PROCESS FILTRATION, INC.

XSPD® grade

Bicomponent, Media Filter Cartridges engineered and manufactured for cost effective filtration

Distributed by: John Mulhern Company Santa Rosa, Ca 95403
800 761-9201 707 578-5105 fax 707 578-8692 info@jmulhern.com

XSPD Bicomponent Media filter cartridges have been designed to hold large amounts of contaminant and still provide 95% retention efficiencies at the rated pore size. These cartridges can be used wherever a high contamination load application requires retention efficiencies above nominal.

Construction Materials [1]

Filtration Media: ..... Polypropylene Bicomponent
End Caps: .....Polypropylene
Standard O-rings: .....EP
Optional O-rings: Buna, Silicone, Viton, EPR, Teflon® Encapsulated.

[1] All materials of construction are FDA accepted. Final assemblies have been validated to pass USP class 6 Toxicology extractable tests, oxidizable substances for plastics, endotoxin level and other quality tests.

Maximum Operating Parameters

Forward Differential Pressure: ..... 40 PSI
Reverse Differential Pressure: ..... 20 PSI
Maximum Operating Temperature: ..... 140°F (60°C)
Recommended Change Out: ..... 25 PSID

Description and Construction

Spun media cartridges are created by laying down graded density fibers on a spinning core. These fibers are engineered so as to provide the maxiumum amount of retention at the rated pore size as well as maximum dirt holding cabability. The tightly controlled manufacturing process produces consistent, highly retentive filters.

Dimensions

Length: .....10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter: .....2.75 inches (7.0 cm) nominal

Flow Rate

The following table represents typical water flow at a one psi (69 mbar) pressure differential across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

Pore Size	0.3um	0.5um	1.0um	3um	5um	7um	10um	20um	30um	40um	50um
GPM	3.0	4.0	6.0	7.25	8.0	8.63	9.25	› 10	› 10	› 10	› 10
LPM	11.35	15.14	22.71	27.44	30.28	32.66	35.01	› 37.85	› 37.85	› 37.85	› 37.85

Ordering Information

The cartridge catalog number is made up of several variable characters i.e. pore size, end cap code, length, and O-ring material. For example: a 10µm , 10 inch long cartridge with a Polyethylene Integra, Flat Gasket, Double Open End would be designated as: XSPD10*N00001P0.

XSPD □□□ □ 0000 □ □ □

Pore size code
- ***30** - 0.30 µm
- ***50** - 0.50 µm
- **1*0** - 1.0 µm
- **3*0** - 3 µm
- **5*0** - 5 µm
- **7*0** - 7 µm
- **10*** - 10 µm
- **20*** - 20 µm
- **30*** - 30 µm
- **40*** - 40 µm
- **50*** - 50 µm

316 SS Ring
- **S** = Ring
- **N** = No Ring

Cartridge Length
- **1** = 10 inches (25.4 cm)
- **2** = 20 inches (50.8 cm)
- **3** = 30 inches (76.2 cm)
- **4** = 40 inches (101.6 cm)

O-ring code
- **S** - Silicone
- **B** - Buna
- **V** - Viton
- **T** - Teflon® Encapsulated Viton
- **E** - EP
- **R** - Teflon® Encapsulated Silicone
- **P** - Polyethylene Integra
- **X** - No Gasket/O-Ring

End cap code
- **0** - Flat Gasket, double open end
- **1** - Flat Gasket w/Plug
- **2** - 2-222 w/ Plug
- **3** - 213/119 Both Ends
- **4** - 213/119 w/ Plug
- **5** - 2-222 O-Ring / Flat
- **6** - 2-226 O-Ring / Flat
- **7** - 020 O-ring
- **8** - 2-222 O-ring with Spear
- **9** - 2-226 O-ring with Spear

CRITICAL PROCESS FILTRATION, INC.

ROMB grade

Polypropylene Melt Blown, Media Filter Cartridges

Distributed by: **John Mulhern Company Santa Rosa, Ca**

(800) 761-9201 (707) 578-5105 fx (707) 578-8692 info@jmulhern.com

ROMB Melt blown cartridges are manufactured by a continuous spun bonding technology that assures a consistent product. 100% all polypropylene construction gives wide chemical compatibility and extremely low extractables. Dual graded density layers offer exceptional value in both removal efficiency and dirt holding capacity where protection of more expensive membrane filters is important. Designed to be used for a variety of prefiltration applications including reverse osmosis and deionization systems.

Construction Materials [1]

Filtration Media: ..... Melt Blown Polypropylene
End Caps: ..... Polypropylene

1 All materials of construction are FDA accepted. Final assemblies have been validated to pass USP class 6 Toxicology extractable tests, oxidizable substances for plastics, endotoxin level and other quality tests.

Maximum Operating Parameters

Forward Differential Pressure: .....30 PSI
Reverse Differential Pressure:.....20 PSI

Applications

RO pretreatment Electronic
Bottled Water Beverage
SDI (service deionization) systems
CDI (Continuous Deionization) systems

Dimensions

Length: .....5 to 40 inches (12.7 to 101.6 cm) nominal
Outside Diameter:.....2.50 inches (6.35 cm) nominal

Flow Rate

The following table represents typical water flow at a one psi (69 mbar) pressure differential across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

Pore Size	1.0um	3.0um	5.0um	10um
GPM	3.0	5.0	6.0	7.50
LPM	11.35	18.92	22.71	28.39

Ordering Information

The cartridge catalog number is made up of several variable characters i.e. pore size, end cap code, length, and O-ring material. For example: a 1µm , 10 inch long cartridge with a Polyethylene Integra, Flat Gasket, Double Open End would be designated as: ROMB1*0N00001P0.

ROMB [ ] N 000 [ ] [ ] [ ]

Pore size code	316 SS Ring	Cartridge Length	O-ring code	End cap code
1*0 = 1.0 µm 3*0 = 3.0 µm 5*0 = 5 µm 10* = 10 µm	N = No Ring	05 = 4.875 inches (12.4 cm) 01 = 9.875 inches (25.1 cm) 02 = 20 inches (50.8 cm) 03 = 30 inches (76.2 cm) 04 = 40 inches (101.6 cm) (For additional lengths consult factory)	S = Silicone B = Buna V = Viton T = Teflon® Encapsulated Viton E = EP R = Teflon® Encapsulated Silicone P = Polyethylene Integra X = No Gasket/O-Ring	0 = Flat Gasket, DOE 5 = 2-222 O-Ring / Flat 6 = 2-226 O-Ring / Flat 8 = 2-222 O-ring / Spear 9 = 2-226 O-ring / Spear 41 = SOE with Poly Spring 42 = SOE with Poly Core Extender

Back

CRITICAL PROCESS FILTRATION, INC.

NSPD grade

Nano-Spun Polypropylene Media Filter Cartridges
Engineered & Manufactured for Cost Effective Filtration

Distributed by: John Mulhern Company
Po Box 6604, Santa Rosa, Ca 95406 800-761-9201
info@jmulhern.com

NSPD media filter cartridges have been designed to hold large amounts of contaminant and still provide 99% retention efficiencies at the rated pore size. These cartridges can be used wherever a high contamination load application requires retention efficiencies above nominal.

Construction Materials [1]

Filtration Media: ..... Hydrophilic Polypropylene
End Caps: ..... Polypropylene
Center Core: ..... Polypropylene
Standard O-rings: ..... EP
Optional O-rings: .... Buna,Silicone,Viton®,Teflon® Encapsulated

[1] All materials of construction are FDA accepted. Final assemblies have been validated to pass USP class 6 Toxicology extractable tests, oxidizable substances for plastics, endotoxin level and other quality tests.

Maximum Operating Parameters

Forward Differential Pressure: ..... 40 PSI
Reverse Differential Pressure: ..... 20 PSI
Maximum Operating Temperature: ..... 140°F (60°C)
Recommended Change Out: ..... 25 PSID

Description and Construction

Spun media cartridges are created by laying down graded density fibers on a spinning core. These fibers are engineered so as to provide the maxiumum amount of retention at the rated pore size as well as maximum dirt holding cabability. The tightly controlled manufacturing process produces consistent, highly retentive filters.

Dimensions

Length: ..... 5 to 40 inches (12.4 to 101.6 cm) nominal
Outside Diameter: ..... 2.75 inches (7.0 cm) nominal

Flow Rate

The following table represents typical water flow at a one psi (69 mbar) pressure differential across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

Pore Size	0.30 µm	0.50 µm	1.0 µm	3.0 µm	5.0 µm	7.0 µm	10 µm	20 µm	30 µm	40 µm	50 µm
GPM	.20	.25	1.0	1.25	2.25	2.65	3.25	4.0	6.0	8.0	9.0
LPM	0.76	0.95	3.78	4.73	8.51	10.03	12.30	15.14	22.71	30.28	34.07

Ordering Information

The cartridge catalog number is made up of several variable characters i.e. pore size, end cap code, length, and O-ring material. For example: a 10µm, 10 inch long cartridge with a Polyethylene Integra Flat Gaskets, Double Open End would be designated as: NSPD10*N00001P0.

NSPD ☐ ☐ **000** ☐ ☐ ☐

Pore size code
***30** = 0.30 µm
***50** = 0.50 µm
1*0 = 1.0 µm
3*0 = 3.0 µm
5*0 = 5.0 µm
7*0 = 7.0 µm
10* = 10 µm
20* = 20 µm
30* = 30 µm
40* = 40 µm
50* = 50 µm

316 SS Ring
S = Ring
N = No Ring

Cartridge Length
05 = 4.875 inches (12.4 cm)
97 = 9.75 inches (24.6 cm)
01 = 10 inches (25.4 cm)
19 = 19.5 inches (49.5 cm)
02 = 20 inches (50.8 cm)
29 = 29.25 inches (74.3 cm)
03 = 30 inches (76.2 cm)
04 = 40 inches (101.6 cm)

O-ring code
S = Silicone
B = Buna
V = Viton®
T = Teflon® Encapsulated Viton®
E = EP
R = Teflon® Encapsulated Silicone
P = Polyethylene Integra
X = No Gasket/O-ring

End cap code
0 = Flat Gasket, DOE
1 = Flat Gasket / Plug
2 = 2-222 O-ring / Plug
3 = 213/119 Internal O-ring DOE
4 = 213/119 Internal O-ring / Plug
5 = 2-222 O-ring / Flat
6 = 2-226 O-ring / Flat
7 = 020 O-ring / Plug
8 = 2-222 O-ring / Spear
9 = 2-226 O-ring / Spear
21 = 2-223 O-ring / Flat
22 = 2-223 O-ring / Spear
23 = 2-222 O-ring 3 Tab / Flat
24 = 2-222 O-ring 3 Tab / Spear