M Series High Efficiency Pleated Paper Filter Cartridges

Facet M Series high efficiency pleated paper filter cartridges are designed to effectively remove solid contaminants such as rust, dirt, scale, granular and other types of solids. These cartridges known as the MP Series high efficiency filter cartridges are constructed to meet the demanding requirements of the industrial filter market.

Media with high efficiencies throughout the life of the cartridges are available in ratings of 0.5 to 75 microns. The filtration of potable liquids is not recommended with this series of filter cartridges.

Facet also offers a MPM Series multimedia, pleated extended area, depth filter cartridge for removing colloidal, slimy, or sludge type solids, as well as extremely fine solids, from process streams. They are available in 0.5, 1, and 2 micron ratings. The combination of multimedia pleated paper fiberglass sheets provides a unique depth filter with a large surface area.

Our pleated paper filter media is made from a variety of natural and synthetic fibers. The fibers are bonded using various resins to provide excellent filtration and solids holding characteristics.

Benefits

- Higher efficiency and longer service life = lower operating costs
- High efficiency cartridge provides superior solids holding capacity
- New spirally wound core reduces cartridge weight resulting in lower freight costs
- All metal components are epoxy powder coated to protect against corrosion
- Gaskets are Buna-N -other materials available upon request
- Available in both self-centering rod mount and screw base
- Available in numerous micron ratings: 0.5, 1, 2, 5, 10, 15, 25, 40, and 75
- Flow direction: Outside to In
- Design collapse pressure: 75 psid (5.17 bar)
- Initial differential pressure: 2 psi (0.14 bar) or less

Applications

- Fuels
- Rolling Oils
- Insulating Oils
- Paints
- Liquid Plastics
- Waxes
- Lube Oils
- Coolants
- Varnishes
- Base Oils
- Solvents (Stoddard Based)
- Petroleum Based and Synthetic Hydraulic Fluids

M Series High Efficiency
Pleated Paper Filter Cartridges

PERFORMANCE SPECIFICATION

SERIES	NOMINAL REMOVAL MICRON								
	0.5	1	2	5	10	15	25	40	75
MPM	•	•	•						
MP	•	•	•	•	•	•	•	•	•

MATERIALS

Filter media options:

0.5 - 2 µm: Multimedia Pleated paper & Fiberglass
5 - 75 µm: Resin Impregnated Pleated Paper

Gasket Materials:

Standard: Buna-N
Optional: Other materials available upon request

Components:

Center Core: Epoxy Powder Coated Spiral Wound Steel
End caps: Epoxy Powder Coated Steel
Outer Body: Perforated Oil Board

Adhesives: Thermoset PVC

FILTER SIZES AND DIMENSIONS

SERIES	DIMENSIONS					
	OD		ID		LENGTH	
	in	mm	in	mm	in	mm
MPMµL	6	152	3 ½	89	14 ½	370
MPµ	6	152	3 ½	89	14 ½	370
MPµL	6	152	3 ½	89	14 ½	370
MPMµLX2	6	152	3 ½	89	28 ¾	730
MPµX2	6	152	3 ½	89	28 ¾	730
MPµLX2	6	152	3 ½	89	28 ¾	730
MPMµLX3	6	152	3 ½	89	43 ¼	1090
MPµX3	6	152	3 ½	89	43 ¼	1090
MPµLX3	6	152	3 ½	89	43 ¼	1090
MPMµLX4	6	152	3 ½	89	57 ¾	1465

µ = Micron Rating

Note: The dimensions are nominal. These are standard sizes. Many other sizes and combinations are available. Please call us for special sizes.

TEMPERATURE / COMPATIBILITY GUIDE

MEDIA	MAXIMUM TEMPERATURE	pH RANGE	PETROLEUM PRODUCTS	CHEMICALS	AQUEOUS SOLUTIONS
Multimedia	240 °F	5 - 9	Excellent	Good	Fair
Pleated Paper	240 °F	5 - 9	Excellent	Good	Fair

CARTRIDGE ORDERING INFORMATION

SERIES	MICRON RATING	OUTER BODY DESCRIPTION	LENGTH	SPECIAL FEATURES
MPM	0.5	L	X2	
MP	5		X3	SB
	0.5, 1, 2, 5, 10, 15, 25, 40, 75	L = Outer Body No designation = No outer body	No designation = 14 ½” X2 = 28 ¾” X3 = 43 ¼” X4 = 57 ¾”	SB = Screw Base V = Viton Gasket J = Non Asbestos Gasket N = Neoprene Gasket

MP SERIES
SINGLE-LENGTH (14 ½") CARTRIDGE FLOW RATES AND EFFECTIVE FILTRATION SURFACE AREA

Micron		0.5		1		2		5		10		15		25		40		75	
Viscosity		Flow	ΔP	Flow	ΔP	Flow	ΔP	Flow	ΔP	Flow	ΔP	Flow	ΔP	Flow	ΔP	Flow	ΔP	Flow	ΔP
ssu	cs	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi
29	1	66	.50	66	.36	66	.28	66	.13	66	.08	66	.04	66	.03	66	.02	66	.01
32	2	66	1.0	66	.73	66	.57	66	.26	66	.18	66	.09	66	.06	66	.04	66	.02
36	3	66	1.5	66	1.1	66	.86	66	.40	66	.27	66	.14	66	.09	66	.07	66	.04
43	5	52	2.0	66	1.8	66	1.4	66	.66	66	.45	66	.23	66	.15	66	.11	66	.07
52	8	32	2.0	45	2.0	57	2.0	66	1.1	66	.73	66	.37	66	.23	66	.18	66	.11
58	10	26	2.0	36	2.0	46	2.0	66	1.3	66	.89	66	.47	66	.29	66	.22	66	.13
98	20	13	2.0	18	2.0	23	2.0	50	2.0	58	1.4	66	.93	66	.58	66	.44	66	.26
140	30	8	2.0	12	2.0	15	2.0	33	2.0	50	1.7	66	1.4	66	.87	66	.66	66	.40
190	40	6	2.0	9	2.0	11	2.0	25	2.0	45	2.0	66	1.9	66	1.2	66	.88	66	.53
230	50	5	2.0	7	2.0	9	2.0	20	2.0	38	2.0	56	2.0	66	1.4	66	1.1	66	.66
342	75	3	2.0	5	2.0	6	2.0	13	2.0	25	2.0	38	2.0	60	2.0	66	1.6	66	1.0
455	100	2	2.0	3	2.0	4	2.0	10	2.0	17	2.0	28	2.0	45	2.0	60	2.0	66	1.3
910	200	1	2.0	2	2.0	2	2.0	5	2.0	8	2.0	14	2.0	22	2.0	30	2.0	50	2.0
1365	300	0.9	2.0	1	2.0	1	2.0	3	2.0	6	2.0	9	2.0	15	2.0	20	2.0	33	2.0
1818	400	0.6	2.0	0.9	2.0	1	2.0	2	2.0	4	2.0	7	2.0	11	2.0	15	2.0	25	2.0
2273	500	0.5	2.0	0.7	2.0	0.9	2.0	2	2.0	3	2.0	5	2.0	9	2.0	12	2.0	20	2.0
Surface Area Square feet		**8.6**		**20.2**		**23.1**		**23.1**		**23.1**		**23.1**		**23.1**		**23.1**		**23.1**	

To determine the double, triple and quadruple-length cartridge flow rates or surface areas, multiply the single-length result by 2, 3 or 4 respectively.

MPM SERIES FLOW RATES

Model		MPM0.5		MPM2	
Micron		0.5		2	
Viscosity		Flow	ΔP	Flow	ΔP
ssu	cs	gpm	psi	gpm	psi
29	1	66	1.4	66	.73
32	2	47	2.0	66	1.4
36	3	31	2.0	60	2.0
43	5	19	2.0	36	2.0
52	8	12	2.0	23	2.0
58	10	9	2.0	18	2.0
98	20	5	2.0	9	2.0
140	30	3	2.0	6	2.0
190	40	2	2.0	5	2.0
230	50	2	2.0	4	2.0
342	75	1	2.0	2	2.0
455	100	0.9	2.0	2	2.0
910	200	0.5	2.0	0.9	2.0
1365	300	0.3	2.0	0.6	2.0
1818	400	0.2	2.0	0.4	2.0
2273	500	0.2	2.0	0.3	2.0

Flow rates are expressed in US Gallons per Minute (GPM).
GPM x 3.785 = Liters per Minute (LPM)

Differential pressure is listed in Pound per Square Inch (PSI).
PSI x .07 = Kilograms per Centimeter Squared (kg/cm^2).