



Graver Technologies

Filtration | Separation | Purification

MC™ Series Multi-Cartridge Filter Housings

High Quality Multi-Cartridge Filter Housings

The MC Series filter housings are constructed of durable stainless steel and meet general purpose industrial and commercial filtration needs. All wetted welded surfaces are stainless steel. External surfaces are sand blasted for a consistent, easy care finish.

Applications

- Potable water
- Edible oils
- Cutting oils
- Process water
- Lubricants
- Solvents
- Coatings
- Coolants

Housing Features

- Durable 304L or 316L stainless steel for corrosion resistance
- Shouldered seal plates provide a solid fit into the cartridge core to ensure a positive cartridge seal
- V-band clamp and swing bolts for quick and easy cartridge changeouts
- Accepts 10", 20", 30" and 40" DOE cartridges
- Removable cartridge posts for easy cleanouts
- Suitable for flow rates from 28 to 1456 gpm
- Accommodates up to 2³/₄" OD cartridges

Available Options

- 150lb ANSI raised face flange
- Multiple MNPT or FNPT Inlet/Outlet sizes
- Legs (standard for 7MC and up)
- Mounting tabs (option for 4MC, 5MC)
- 222/226 configuration
- Gauge ports

Housing Specifications

Maximum Operating Pressure:

150 psig (10.3 bar) @ 200°F in liquid service
Not for use with compressed gases

Construction:

Head & Bottom Seat Plates: 316L stainless steel
Shell, Vent Plug, Drain Cap: 304L stainless steel

Shell O-Ring:

Standard: Buna N Optional: Viton, EPDM, Silicone

Internal Components:

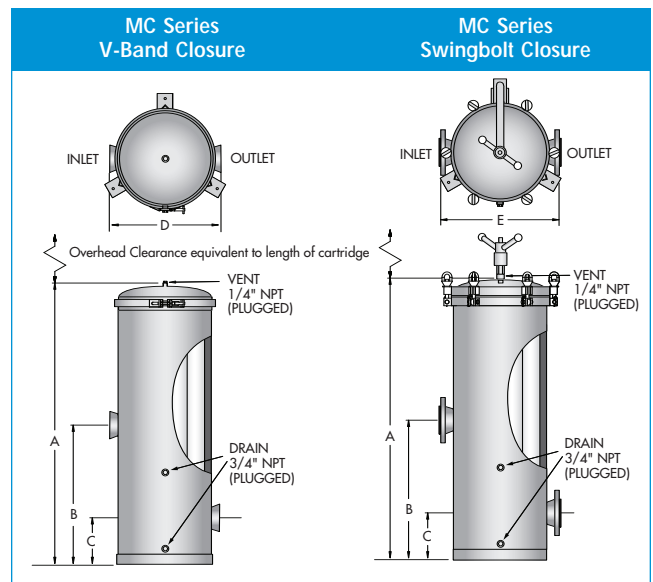
316L stainless steel compression seat plate assemblies and tube guides are included with the MC Series



MC Series Multi-Cartridge Filter Housings

Connections

	Drain	Vent	Drain	Inlet/Outlet
4MC	1/4" (0.6cm) NPT	1/2" (1.3cm) NPT	1-1/2" (3.8cm) NPT	
5MC	1/4" (0.6cm) NPT	1/2" (1.9cm) NPT	2" (5.1cm) NPT	
7MC	1/4" (0.6cm) NPT	1/2" (1.9cm) NPT	2" (5.1cm) NPT	
12MC	1/4" (0.6cm) NPT	1/2" (1.9cm) NPT	3" (7.6cm) Flange	
22MC	1/4" (0.6cm) NPT	1/2" (1.9cm) NPT	4" (10.2cm) Flange	
36MC	1/4" (0.6cm) NPT	3/4" (1.9cm) NPT	6" (15.2cm) Flange	
52MC	1/4" (0.6cm) NPT	3/4" (1.9cm) NPT	6" (15.2cm) Flange	



MC Series Multi-Cartridge Filter Housing Dimensional Data

Model	Rated Capacity ¹ GPM (lpm)	No of 10" Equivalent Cartridges	A Dim for V-Band Inches (cm)	A Dim for Swing Bolt Inches (cm)	B	C	D	E	Shipping Weight lbs (kg)
4MC-1	28 (106)	4	20 ⁷ / ₈ (53.0)	22 ¹ / ₄ (56.5)	7(17.8)	3 (7.6)	10 ¹ / ₂ (26.7)	12 ¹ / ₂ (31.8)	20 (9.1)
4MC-2	56 (212)	8	30 ⁷ / ₈ (78.4)	32 ¹ / ₄ (81.9)	7 (17.8)	3 (7.6)	10 ¹ / ₂ (26.7)	12 ¹ / ₂ (31.8)	30 (13.6)
4MC-3	84 (318)	12	40 ⁷ / ₈ (103.8)	42 ¹ / ₄ (107.3)	7 (17.8)	3 (7.6)	10 ¹ / ₂ (26.7)	12 ¹ / ₂ (31.8)	40 (18.1)
4MC-4	112 (424)	16	50 ⁷ / ₈ (129.2)	52 ¹ / ₄ (132.7)	7 (17.8)	3 (7.6)	10 ¹ / ₂ (26.7)	12 ¹ / ₂ (31.8)	50 (22.7)
5MC-1	35 (132)	5	20 ⁷ / ₈ (53.0)	22 ¹ / ₄ (56.5)	7 (17.8)	3 (7.6)	10 ¹ / ₂ (26.7)	12 ¹ / ₂ (31.8)	26 (11.8)
5MC-2	70 (265)	10	30 ⁷ / ₈ (78.4)	32 ¹ / ₄ (81.9)	7 (17.8)	3 (7.6)	10 ¹ / ₂ (26.7)	12 ¹ / ₂ (31.8)	32 (14.5)
5MC-3	105 (398)	15	40 ⁷ / ₈ (103.8)	42 ¹ / ₄ (107.3)	7 (17.8)	3 (7.6)	10 ¹ / ₂ (26.7)	12 ¹ / ₂ (31.8)	43 (19.5)
5MC-4	140 (530)	20	50 ⁷ / ₈ (129.2)	52 ¹ / ₄ (132.7)	7 (17.8)	3 (7.6)	10 ¹ / ₂ (26.7)	12 ¹ / ₂ (31.8)	48 (21.8)
7MC-1	49 (185)	7	20 ¹ / ₂ (52.1)	21 (53.3)	8 ¹ / ₁₆ (20.5)	3 ⁵ / ₁₆ (8.4)	12 ¹ / ₂ (31.8)	14 ¹ / ₂ (36.8)	44 (20.0)
7MC-2	98 (371)	14	30 ¹ / ₂ (77.5)	31 (78.7)	8 ¹ / ₁₆ (20.5)	3 ⁵ / ₁₆ (8.4)	12 ¹ / ₂ (31.8)	14 ¹ / ₂ (36.8)	53 (24.0)
7MC-3	147 (557)	21	40 ¹ / ₂ (102.9)	41 (104.1)	8 ¹ / ₁₆ (20.5)	3 ⁵ / ₁₆ (8.4)	12 ¹ / ₂ (31.8)	14 ¹ / ₂ (36.8)	70 (31.8)
7MC-4	196 (742)	28	50 ¹ / ₂ (128.3)	51 (129.5)	8 ¹ / ₁₆ (20.5)	3 ⁵ / ₁₆ (8.4)	12 ¹ / ₂ (31.8)	14 ¹ / ₂ (36.8)	91 (41.3)
12MC-2	168 (636)	24	39 ¹ / ₂ (100.3)	40 ¹ / ₂ (102.9)	15 ¹ / ₈ (38.4)	9 ³ / ₄ (24.8)	12 ¹ / ₂ (31.8)	14 ¹ / ₂ (36.8)	86 (39.0)
12MC-3	252 (954)	36	49 ¹ / ₂ (125.7)	50 ¹ / ₂ (128.3)	15 ¹ / ₈ (38.4)	9 ³ / ₄ (24.8)	12 ¹ / ₂ (31.8)	14 ¹ / ₂ (36.8)	92 (41.7)
12MC-4	336 (1272)	48	59 ¹ / ₂ (151.1)	60 ¹ / ₂ (153.7)	15 ¹ / ₈ (38.4)	9 ³ / ₄ (24.8)	12 ¹ / ₂ (31.8)	14 ¹ / ₂ (36.8)	100 (45.4)
22MC-3 ^{2,3}	462 (1749)	66	50 ³ / ₁₆ (127.5)	50 ³ / ₁₆ (127.5)	15 ¹ / ₄ (38.7)	9 ¹ / ₂ (24.1)	20 ¹ / ₂ (52.1)	22 ¹ / ₂ (57.2)	140 (63.5)
22MC-4 ^{2,3}	616 (2332)	88	60 ³ / ₁₆ (152.9)	60 ³ / ₁₆ (152.9)	15 ¹ / ₄ (38.7)	9 ¹ / ₂ (24.1)	20 ¹ / ₂ (52.1)	22 ¹ / ₂ (57.2)	165 (74.8)
36MC-3 ^{2,3}	756 (2861)	108	n/a	69 ³ / ₄ (177.2)	32 ³ / ₈ (82.2)	14 (35.6)	n/a	25 ⁷ / ₈ (65.7)	340(154.2)
36MC-4 ^{2,3}	1008 (3816)	144	n/a	74 ³ / ₄ (189.9)	32 ³ / ₈ (82.2)	14 (35.6)	n/a	25 ⁷ / ₈ (65.7)	360 (163.3)
52MC-3 ^{2,3}	1092 (4134)	156	n/a	65 ¹⁵ / ₁₆ (167.5)	32 ³ / ₈ (82.2)	14 (35.6)	n/a	29 ⁷ / ₈ (75.9)	520 (235.9)
52MC-4 ^{2,3}	1456 (5512)	208	n/a	75 ¹⁵ / ₁₆ (192.9)	32 ³ / ₈ (82.2)	14 (35.6)	n/a	29 ⁷ / ₈ (75.9)	550 (249.5)

¹ Above rated flow capacities based on pleated filter cartridge rated at 7 gpm per 10" equivalent. Actual flow rate is dependent upon cartridge and application.

² Height includes legs

³ Housing accepts a maximum of 2-5/8" cartridges

Selection & Ordering Guide for MC Series Multi-Cartridge Filter Housings *(Select one from each column)*

Model	Cartridge Height (10" lengths)	Closure Type	Material of Construction	Connection	Inlet/Outlet Size (inches)	Gasket
4MC	1 – 10"	VB - V Band	304L	N - NPT	1.5	B - Buna-N
5MC	2 – 20"	SB - Swing Bolt	316L	F - Flange	2	E - EPDM
7MC	3 – 30"				3	T - Teflon
12MC	4 – 40"				4	V - Viton
22MC					6	
36MC*						
52MC*						
Example of a Typical MC Filter Housing Selection						
22MC	– 3	– SB	– 304L	– F	– 4	– B

* 36MC and 52MC Series Housings only available with SB closures

All information and recommendations appearing in this bulletin concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Graver Technologies as to the effects of such use or the results to be obtained. Graver Technologies assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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