

# Multi-Cartridge Filter Housings 12 and 21 Round Series



## Commercial/Industrial Filtration Applications



- Holds 30" or 40" lengths for optimal choice of flow rates
- Heavy-duty 304L or 316L stainless steel construction for maximum durability and corrosion resistance
- V-band clamp or swing bolt closures for quick and easy cartridge change-outs and secure sealing
- Top spring seals allow for variable length cartridges
- Universal seal cups and compression plates accept DOE and 222/FLAT or FIN cartridges – standard on all filter housings
- 1/4" gauge port on body

## PRODUCT SPECIFICATIONS



### Max Operating Pressure

150 psig (10.3 bar)\*  
@ 300°F (149°C)\*



### Materials of Construction

Head/Shell/Connections: 304L or 316L Stainless Steel  
Closure: Clamp – 304L Stainless Steel  
Swing Bolts: Zinc Plated Steel  
Vent & Drain Plugs: 304L or 316L Stainless Steel  
Gaskets: Standard - Buna N (FDA grade)  
Optional - EPR, silicone, Teflon encapsulated silicone, Viton  
Finish: Glass bead on exterior, exterior surfaces



### Connections

Inlet/Outlet: 3" (12 round) & 4" (21 round) RF Flanges  
Optional: RF flanges, sanitary ferrules, MNPT, FNPT, BSP or grooved fittings  
Drain Ports: 1/2" FNPT  
Vent Ports: 1/4" FNPT (12 round), 1/2" FNPT (21 round)

\*Temperature ratings vary and depend on pressure and time under load

## Cartridge Type

DOE style cartridges (maximum 2-3/4" diameter for 12 round and 2-5/8" diameter for 21 round series).  
OR 222/FLAT or FIN cartridges – standard on all filter housings 21 round series holds 21 cartridges, order as 21 round housing.

## Custom Options

Available in ASME "U" Code specifications, or built to ASME code with no stamp, for commercial and industrial filtration.

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## APPLICATIONS

- Chemicals
- Cooling Tower Filtration
- Desalination Prefiltration
- Electronics
- Food and Beverage
- Oil/Gas
- Paints/Inks/Coatings
- Paper and Pulp
- Power
- Water

# Multi-Cartridge Filter Housings

## 12 and 21 Round Series



### PRODUCT

Model	CARTRIDGE LENGTH +	FLOW RATE CAPACITY*	INLET/OUTLET (PIPE SIZE)	MAX DIAMETER CARTRIDGE
BCM12X2/SBM12X2	12 (20")	168 gpm (636 lpm)	3"	2-3/4"
BCM12X3/SBM12X3	12 (30")	252 gpm (954 lpm)	3"	2-3/4"
BCM12X4/SBM12X4	12 (40")	330 gpm (1272 lpm)	3"	2-3/4"
BCM21X3/SBM21X3**	21 (30")	462 gpm (1749 lpm)	4"	2-5/8" **
BCM21X4/SBM21X4**	21 (40")	616 gpm (2332 lpm)	4"	2-5/8" **

+ Housings will accept cartridge lengths: 10" = (9-3/4" or 10"), 20" = (19-1/2" or 20"), 30" = (29-1/4" or 30") and 40" = (39" or 40")  
 \* Based upon 7 gpm per 10" length with a 25 micron wound cartridge at 2 PSID clean and viscosity of 1 cps. Flow rates are for guidelines only. Actual flow rates are based on fluid, viscosity, cartridge type, micron ratings and other factors.

### ORDERING GUIDE (Example: BCM12X3-316L-226-2FC-PG-E)

BCM12X      3      -      316L      -      226      -      2      FC      -      PG      -      E

MODEL	CARTRIDGE LENGTH	MATERIAL /FINISH	CARTRIDGE CONFIGURATION	INLET/OUTLET	CONNECTION TYPE	OPTIONS	GASKET
<b>BCM12X</b> 12 cartridges	<b>1=</b> 10" 9-7/8" 9-3/4"	<b>Blank</b> 304L(standard)	<b>Blank</b> DOE, 222 Fin/Flat (standard)	<b>3</b> 3" (standard)	<b>FL</b> Flange (standard)	<b>Blank</b> Mounting Legs, Gauge Ports (standard)	<b>Blank</b> Buna N (standard)
<b>BCM21X</b> 21 cartridges (V-Band Clamp Closure)	<b>2=</b> 20" 19-1/2"	<b>316L</b> 316L	<b>226</b> 226 Fin/Flat	<b>4</b> 4"	<b>MT</b> MNPT Male Thread	<b>PG</b> Pressure Gauges (2)	<b>E</b> EPR
<b>SBM12X</b> 12 cartridges	<b>3=</b> 30" 20-1/4"	<b>304LC</b> 304L Coated		<b>6</b> 6"	<b>FT</b> FNPT	<b>P</b> Passivate	<b>S</b> Silicone
<b>SBM21X</b> 21 cartridges (Swing Bolt Closure)	<b>4=</b> 40"	<b>316LC</b> 316L Coated		<b>8</b> 8"	<b>TC</b> Ferrules	<b>U</b> ASME Code "U" Stamp	<b>V</b> Viton
		<b>304LEP</b> 304L Electropolished			<b>GF</b> Grooved Fittings	<b>NS</b> Built to ASME Code/no Stamp	<b>T</b> Teflon Encapsulated Silicone
		<b>316LEP</b> 316L Electropolished				<b>HP</b> High Pressure (up to 250psi)	
		<b>304LGB</b> 304L Glass Bead					

### QUESTIONS?

Ask our Service Representatives at:  
 888.859.1188 Mon. - Fri. 8a - 8p, Sat 8:30a - 4:30p EST.

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### Available End Cap Configurations

