

Fulflo® “M” Series Single Cartridge Vessels

- Carbon Steel
- 316 Stainless Steel

Single Cartridge Filter Vessel Series

High Pressure Single Cartridge Vessels

Parker’s “M” Series Single Cartridge Filter Vessels are designed for a broad range of high pressure industrial and chemical process applications. All details of design, materials, construction and workmanship comply with the ASME code for pressure vessels. The “M” series is available with and without the ASME stamp.

Applications

- Chemicals
- Process Water
- Catalyst Recovery
- Lubricants
- Solvents
- Coolants
- Cutting Oils
- Hydraulic Oils
- Other High Pressure Liquids
- Compressed Air and Gases



Features and Benefits

- ASME design to insure integrity, available with and without the ASME stamp.
- T-Style head and shell for ease of installation and servicing.
- Standard O-ring closure seal is Buna-N, with optional materials available for improved chemical compatibility and higher temperature rating.
- Flanged or threaded connections to suit installation requirements and preference.
- Optional 150, 300 or 600 lb RFS0 flange connections for installation flexibility.
- 1 inch connections for maximum flow capability of filter cartridges.
- Utilizes one 10, 20 or 30 inch cartridge.
- Multiple bolt closure with bright zinc plated studs and nuts.
- Optional single-open-end (SOE 2-222 TC Style) cartridge adapter for positive sealing of high efficiency filter cartridges.
- Wide range of cartridge media available for process clarity control and chemical compatibility.
- Rigid cartridge support post with threaded end seal for positive double open end (DOE) cartridge sealing.

Process Filtration Division



WARNING! FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection for the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Single Cartridge Filter Vessel Series

Specifications

- Carbon steel or 316 stainless steel material
- Drain: 1/4 in NPT
- Vent: 1/4 in NPT
- Bolting: (4) 5/8-11 UNC bright zinc plated carbon steel

■ Maximum Allowable Working Pressure

Connections	Designation	Carbon Steel at 250°(121°C)	316 Stainless Steel at 250°(121°C)
FNPT	T	1610 psig	1610 psig
150 lb. Flange	F	245 psig	227 psig
300 lb. Flange	H	665 psig	590 psig
600 lb. Flange	J	1332 psig	1180 psig

Note: FNPT maximum pressure is 1610 psig at 300°F with EPR O-ring, 400°F with Viton and Teflon encapsulated Viton O-ring, and 500°F with Teflon Encapsulated Silicone. Flanged units (F, H, and J designations) are based on ANSI B16.5 pressure at 250°F (121°C). The flanged versions can also be rated for the higher design temperature in which case the pressure rating will be reduced according to ANSI B16.5. Indicate the desired temperature in degrees F at the end of the model number. The gasket material and flange rating must be changed accordingly.

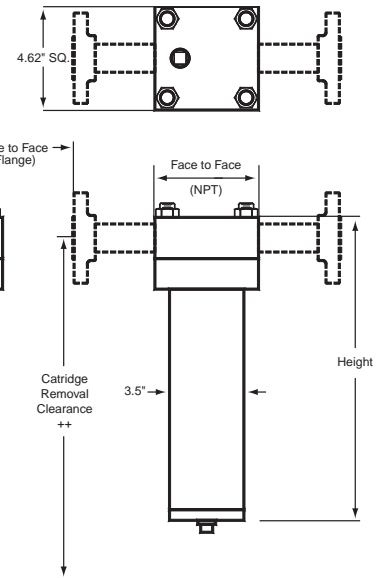
■ "M" Series Flow Rates and Dimensions

Model	Typical Aqueous [†] Flow Rate (gpm)	Cartridge Length (in)	Cartridge Height (in) ⁺⁺	Inlet Face to Outlet Face (in)		Weight (lbs)	Cartridge Removal Clearance (in) ⁺⁺	
				FNPT	Flanged		FNPT	Flanged
MC(N or U)1S	6	10	14.5	4.62	12.62	37	45	22
MC(N or U)1D	12	20	24.5	4.62	12.62	46	54	42
MC(N or U)1T	18	30	34.5	4.62	12.62	55	63	62

[†] Actual flow is dependent on fluid viscosity, micron rating, contaminant, media type and desired initial pressure drop.
⁺⁺ Add 3" when using TC internal option for use with TC style 2-222 O-ring cartridges.

Ordering Information

M	C	U	1	S	1	F	N	TC	XXX
Series	Material	Design	Columns	Length	Inlet/Outlet	I/O Type	Gasket/Material	Internal Option	Special temperature for flanged units
	C=Carbon Steel S=316 SS	N=Non-Code U=ASME U-Stamp	1=1 Element	S=10" Cart. D=20" Cart. T=30" Cart.	1=1"	T=FNPT F=Flanged 150# H=Flanged 300# J=Flanged 600#	N=Banan E=EPR V=Viton* T=Teflon* encapsulated Viton* L=Teflon* encapsulated silicone	2-222 o-ring adapter Blank=center post for DOE	Blank=250°(121°C)



Process Filtration Division

* A trademark of E. I. du Pont de Nemours & Co.

Fischer-Robertson, Inc.
 Process Filtration Division
 3890 Symmes Road
 Hamilton, Ohio 45015
 Toll Free 1-800-589-3726
 Telephone (513) 860-3445
 Fax (513) 860-4744
<http://www.fischer-robertson.com>