# 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

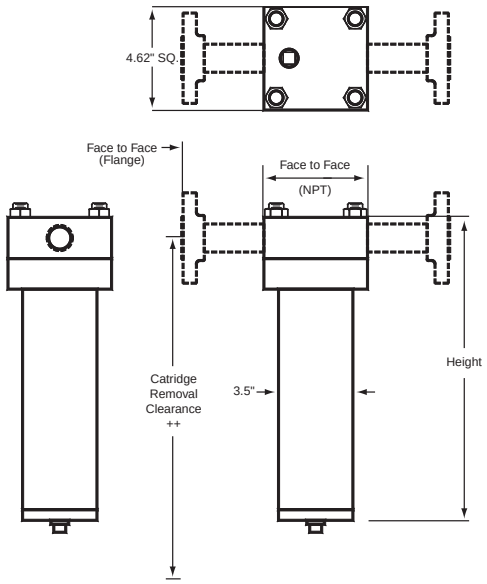
- Chemicals
- Process Water
- Catalyst Recovery
- Lubricants
- Solvents
- Coolants
- Cutting Oils
- Hydraulic Oils
- Other High Pressure Liquids
- Compressed Air and Gases

## 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**

Bulletin C-3005 Effective 6/99




## 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 th 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)* | 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<br>S = 316 SS | N = Non-Code<br>U = ASME U-Stamp | 1 = 1 Element | S = 10" Cart.<br>D = 20" Cart.<br>T = 30" Cart. | 1 = 1" | *T = FNPT*<br>F = Flanged 150#<br>H = Flanged 300#<br>J = Flanged 600# | N = Buna-n<br>E = EPR<br>V = Viton*<br>T = Teflon* encapsulated Viton*<br>L = Teflon* encapsulated silicone | 2-222 o-ring adapter<br>Blank = center post for DOE | Blank = 250°(121°C) |

**Process Filtration Division**

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