

# momentum

ENGINEERED SYSTEMS, INC.



## MP12 Highflow Series

API PLAN 12  
Seal Filtration System



### FEATURES

- Up to 75 GPM Flow Rate
- Filter Elements 3 & 10 micron, absolute rated
- Two closure designs available, Yale type threaded cap and bolted flange
- Filter Systems designed to ASME Sec. VIII, div. 1



*Standard 6 Week Delivery*

Momentum Engineered Systems

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# MP12 Highflow Series API PLAN 12 Seal Filtration System

## SYSTEM FEATURES

- Duplex Filter Design for continuous flow during transfer to the new filter.
- 316ss Filter Core, capable of 75 psig differential pressure, is threaded into filter body and remains installed reducing filter costs.
- Two closure designs are available, Flange bolted with a spiral wound gasket or an ACME threaded cap with an O ring seal, lifting davits are available for both closure designs.
- Filter bodies are designed per ASME section VIII, Division 1.
- ASME U stamp available on request, National Board registered. Filter bodies constructed from stainless to carbon steel, per your requirements. Lifting eye provided.
- Flow and pressure instrumentation provided by industry leaders, such as Rosemount Transmitters and Hedland Flow Meters.
- ¾" tubing and ball valves, 316ss. Fittings and valves are Swagelok or per your request.
- The inlet and Outlet connections terminate at a manifold for a clean installation.
- The top view foot print is 30" x 30" typical, 50" height.

## FILTER FEATURES

- Borosilicate Glass Microfiber Filter Media used because no other element works as efficiently or gathers as many particles as the Borosilicate.
- 3 or 10 Micron Filter Element, Absolute Rated.
- Beta Ratio – 5,000 Efficiency – 99.98%
- Mass Flux = Mass Flow per unit area, example

## MOMENTUM

20 gpm flush / 40 sq.ft. filter area = **0.5 Flux**

## COMPETITION

20 gpm flush / 0.8 sq.ft. filter area = **25 Flux**

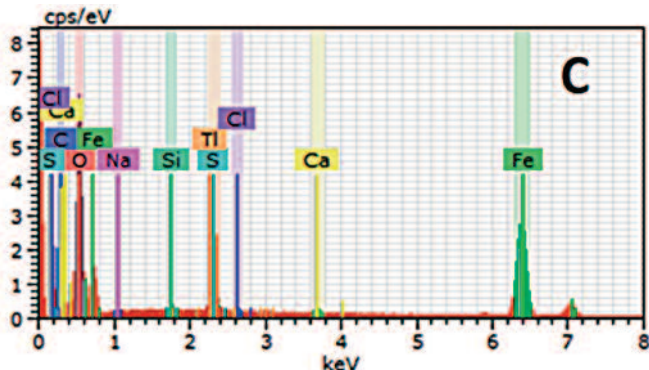
*The lower the Flux, the longer the filter life.*

- "O" Ring sealed filter to filter housing for positive sealing and ease of maintenance.
- The filters incorporate a handle on the top and replacement simply requires lifting the filter off of the "O" Ring sealing surface/core element.
- The Borosilicate element holds much more particulate than cellulose media filters, which are Nominal rated, 60 to 98% of the rated pore size. Less filter changes and Absolute filtration to the rated pore size.
- Low filter cost and longer life cycles, with better filtration gives low cost of ownership and value.

We can provide filtrated particulate analysis.

### Experiencing excessive filter fouling?

#### PARTICULATE COMPOSITION



### We can provide filtrated particulate analysis.

#### ANALYSIS OF SPENT FILTER

