

## Application

Permian PMFM-2510 elements are designed to coalesce extremely fine liquid and particles from air and gas streams to protect pneumatic tools, instruments, valves, and air cylinders from erosion, corrosion, or clogging caused by moisture or particulate contamination in compressed air and gas systems; to protect desiccant from fouling as a result of liquid or particulate contamination; and to produce breathable air. These elements are designed with microfiberglass filter media optimized for reverse flow to ensure effective removal of entrained liquids from flows limited to the lower laminar range. Microfiberglass media also retains solids more effectively, lessening the frequency of element changes due to solids plugging. The flow pattern through these elements is from the inside to the outside.

## Characteristics

Permian PMFM-2510 filter/coalescer elements have the following characteristics:

- Removes 99.99% of aerosols.
- Removes 99.995% of 0.3 micron particles.
- Meets U.S. Navy specification NAVSEAINST-10560.2A to produce breathable air.
- Robust construction, withstanding over 20 PSI differential pressure.
- Highest quality components.

## Specifications

|                         |   |
|-------------------------|---|
| Length: .....           | 4 inches (PMFM-251004-003)                    |
|                         | 10 inches (PMFM-251010-003)                   |
|                         | 20 inches (PMFM-251020-003)                   |
|                         | 30 inches (PMFM-251030-003)                   |
| Outside diameter: ..... | 2.50 inches                                   |
| Inside diameter: .....  | 1.00 inches                                   |
| Center core: .....      | 304 stainless steel                           |
| Outer core: .....       | 304 stainless steel                           |
| End caps: .....         | Closed end polypropylene                      |
| Open end: .....         | Polypropylene with locking ears               |
| Gaskets: .....          | Buna N, Viton A, Silicone, EPDM               |
| Media: .....            | Microfiberglass filter, high efficiency media |
| Outer sock: .....       | Needled polyester                             |
| Efficiency: .....       | 0.3 micron absolute                           |

*Special metallic materials are available if required. Contact us for price and availability.*

## Recommended operating limits

|   |              |
|---|--------------|
| Initial differential pressure: .....  | < 0.5 PSI    |
| Recommended change-out differential: .....                                      | 3 PSI (max.) |
| Maximum element operating life,<br>irrespective of differential pressure: ..... | 1 year       |
| Maximum operating temperature: .....  | 250°F        |
| Minimum operating temperature: .....  | 35°F         |