

**mmp<sup>®</sup>**



# ABOUT US

**mmp** is on a mission to make daily life better with practical cleaning solutions for air and water. We're proud pioneers in India, making top-notch water and air filters and dust bags in our advanced plants in Kolkata, Mumbai, Chennai, and Ahmedabad. We know the whole process, from design to production, to ensure quality filters that meet global standards.

We're the first in India to design NSF-certified melt-blown filters, for our strong commitment to quality. We keep things simple and effective, making our filters efficient and accessible to every industry. Presenting our brochure for Liquid Filtration Cartridges & Products.

Our strong supply chain gets our products all over India & Abroad smoothly. With offices in Kolkata, Mumbai, Chennai, and Ahmedabad, we're here to help businesses upgrade their filtration system.





HIGH-PERFORMANCE  
**WATER FILTRATION**  
PRODUCTS WITH PRECISION ENGINEERING



PETROLEUM



CHEMICAL



PHARMACEUTICALS



FOOD & DAIRY



WATER TREATMENT



ENERGY



DESALINATION





## DREF SPINNING YARN

**UNMATCHED STRENGTH & EFFICIENCY  
WITH HIGH ABSORPTION YARN.**

- Uniform breaking strength along the entire length.
- High dirt holding capacity.
- Low flow resistance.
- High filtration efficiency and life of the filter.



Manufactured from materials which are listed for food contact applications in Title 21 CFR 177.1520 (Olefin Polymers) of the U.S. Code of Federal Regulations.

### Technical Specification

|                     |                                                   |
|---------------------|---------------------------------------------------|
| Fiber               | Polypropylene / Polyester                         |
| Spinning Technology | Dref friction spun yarn count of yarn: 0.4-1.0 Ne |
| Core Spun Yarn      | Multifilament yarn in the core                    |
| Fiber Denier        | 1.4-6 Denier                                      |
| Package Size        | 4.5-6.5 kg/spool                                  |

## ZERO FOAMING YARN

### THE ZERO-FOAM BREAKTHROUGH A STORY OF INNOVATION IN FILTRATION YARN

- Designed to eliminate foaming during filtration
- Ensures smooth, efficient and reliable performance
- Ideal for consistent purity across applications



| Parameter                     | Value / Range               |
|-------------------------------|-----------------------------|
| Yarn Count (NE)               | 0.6 to 1.5 NE               |
| Fiber Type                    | 100% Polypropylene (Virgin) |
| Tenacity                      | ≥ 2.5 g/denier              |
| Elongation at Break           | 20-30%                      |
| Surface Finish                | Dry, Anti-static            |
| Foaming Behavior in Water     | Zero                        |
| Recommended Micron Rating Use | 1 to 100 micron filters     |
| Temperature Resistance        | Up to 80°C (176°F)          |
| Yarn Form                     | Cone or Cheese              |
| Package Weight                | 3.5-4.0 kg per cone         |
| Packaging                     | Shrink-wrapped & Boxed      |



# ANTI-MICROBIAL POLYPROPYLENE FILTRATION YARN

**CRAFTED BY EXPERTS FOR  
SAFE & RELIABLE FILTRATION**

- Infused with antimicrobial properties to prevent bacterial growth
- Ensures pure, long-lasting and consistent performance
- Available in multiple sizes for varied filtration needs

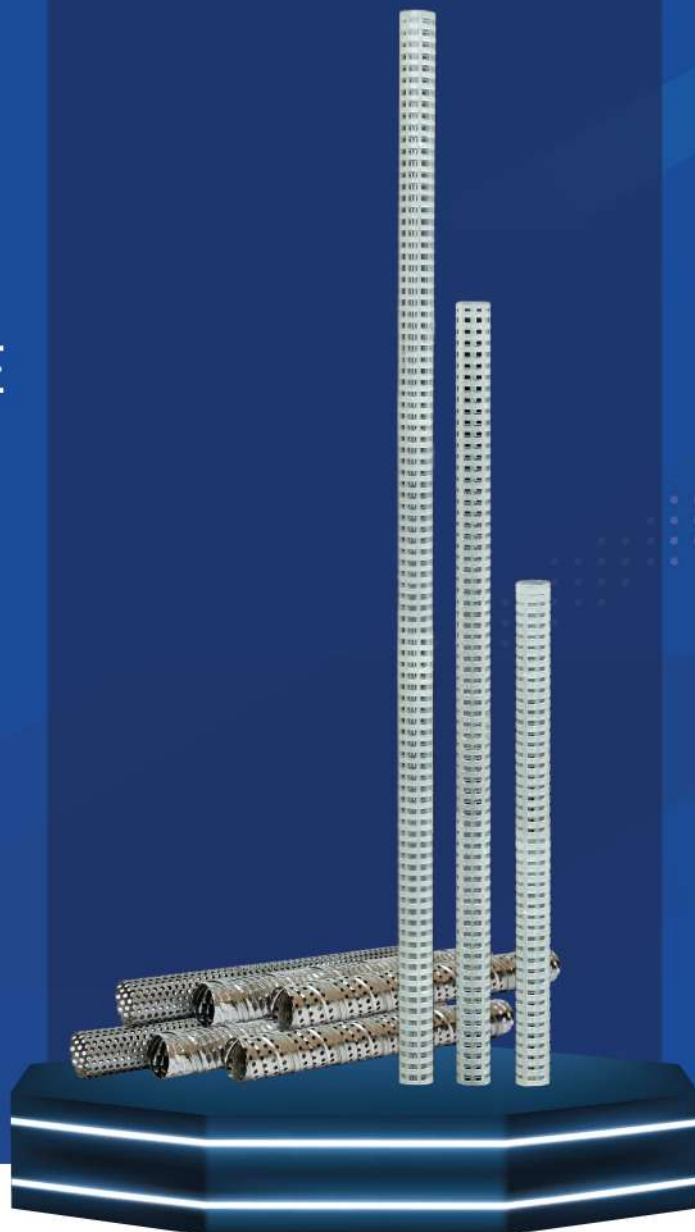


| FEATURE             | YARN                  | CARTRIDGE (E.G., 10")         |
|---------------------|-----------------------|-------------------------------|
| Base Material       | Polypropylene         | Polypropylene shell + PP yarn |
| Antimicrobial Agent | Silver-based additive | Integrated during winding     |
| Denier Range        | 150-300               | ----                          |
| Tensile Strength    | ≥ 50 cN/tex           | ----                          |
| Cartridge Length    | -----                 | 254 mm (10 in)                |
| Outer Diameter      | -----                 | 63 mm                         |
| Flow Rate Capacity  | ----                  | Up to 10 L/min at 1 bar       |
| Micron Rating       | Yarn: 0.5–5 µm        | Cartridge: 1–50 µm            |

# PP CORE FOR FILTER CARTRIDGE

## CRAFTED BY EXPERTS FOR DURABLE FILTRATION

- Crafted from top-tier Polypropylene, ensuring robustness for extended and high-quality filtration.
- Reinforced with a Tinned Steel Core, providing reliability and consistent performance.
- Versatile size for various needs.



| Technical Name | Core for Filter Cartridge                                  |
|----------------|------------------------------------------------------------|
| Raw Material   | Polypropylene<br>Stainless Steel Core<br>Tinned Steel Core |
| ID             | 28 mm                                                      |
| Length         | 10", 20", 30", 40" Single Drawn Core                       |





# HYDRO WOUND<sup>®</sup> FILTER CARTRIDGE

**WOVEN FOR PURITY,  
ENGINEERED FOR BRILLIANCE**

- Best Quality Yarn wound with High Precision.
- Higher Dirt Holding Capacity
- Increases life and efficiency of the filter.

Manufactured from materials which are listed for food contact applications in Title 21 CFR 177.1520 (Olefin Polymers) of the U.S. Code of Federal Regulations.



## Technical Specification

|                     |                                                      |
|---------------------|------------------------------------------------------|
| Raw Material        | Polypropylene / Polyester / Cotton                   |
| Spinning Technology | DREF friction spun yarn count<br>of yarn: 0.4-1.0 Ne |
| Core Spun Yarn      | PP, SS, tinned steel                                 |

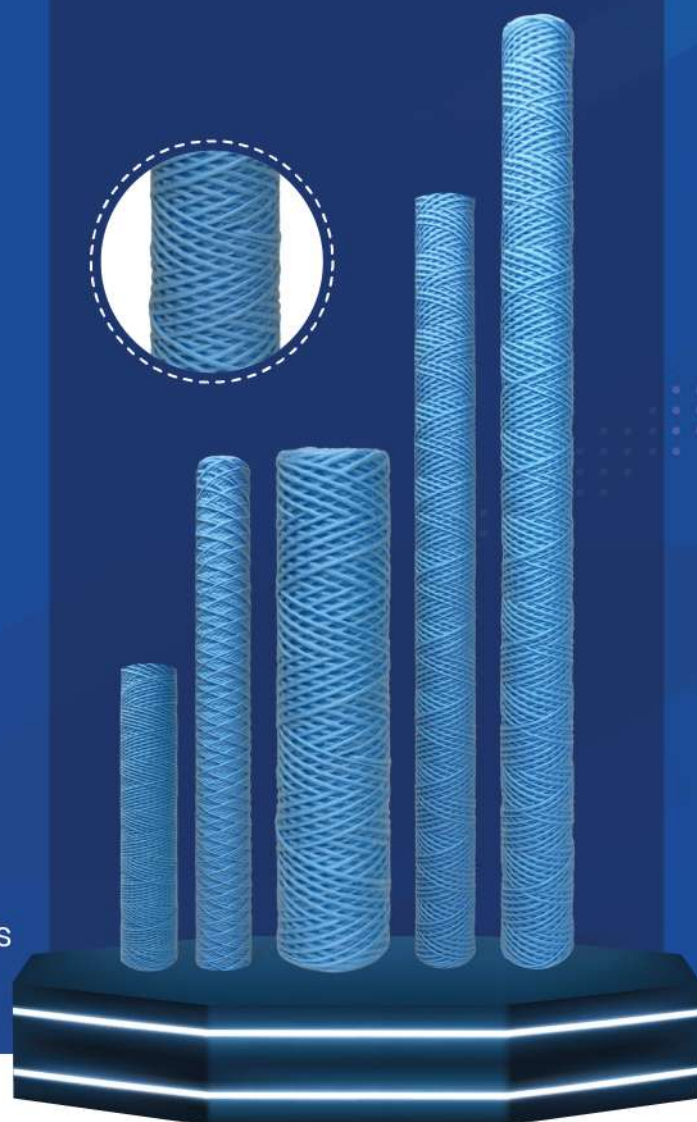




# ANTI-MICROBIAL WOUND FILTER CARTRIDGE

**CRAFTED BY EXPERTS FOR HYGIENIC  
AND LONG-LASTING FILTRATION**

- Premium yarn with anti-microbial protection
- Resists bacterial growth for pure, safe filtration
- Durable performance in multiple sizes



| Parameter                 | Details                                |
|---------------------------|----------------------------------------|
| Material                  | Polypropylene with Antimicrobial Agent |
| Micron Rating             | 1, 5, 10, 25, 50 $\mu\text{m}$         |
| Cartridge Length          | 10", 20", 30", 40"                     |
| Core Type                 | Polypropylene / Stainless Steel        |
| Operating Temp            | Up to 80°C                             |
| Max Differential Pressure | 2.5 bar @ 25°C                         |
| End Cap Configuration     | DOE, SOE, 222/Flat, 222/Fin            |

## LIQUID FILTER BAG

- Made from durable polypropylene, polyester, and nylon.
- High dirt-holding capacity for longer filtration cycles.
- Captures particles from 0.5 to 1200 microns.
- Handles flow rates of 1 to 1000 m<sup>3</sup>/hr.
- Reliable performance under high pressure.
- Low maintenance and cost-effective.



Filter Bags are designed for efficient filtration using a pressure-driven mechanism that forces liquids through the bag to remove particulate matter.

Made from durable materials like polypropylene, polyester, and nylon.

They are ideal for both fine and coarse filtration, handling flow rates from 1 to 1000 cubic meters per hour.

Suitable for industries such as water treatment, chemicals, food processing, Rubber Industries, Textile Industries Etc.

These bags provide reliable performance even under high pressure.

Configurations include single-bag units for basic applications and duplex or multi-bag housings for continuous or high-volume operations, ensuring flexibility and reliability in various industrial settings.

## EVOLUTION OF MANUFACTURING TECHNOLOGY

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### 1<sup>st</sup> Generation: Electromechanical Winding Machines

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In our early stage, we launched our Electromechanical String Wound Filter Winding Machines capable of producing:

- Cartridge lengths from 5 inches to 70 inches
- Micron ratings from 0.5  $\mu$  to 100  $\mu$ .



### Key Attributes:

- **MICRON ADJUSTMENT:**

Manual gear changes

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- **TECHNOLOGY TYPE:**

Gear-based winding control

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- **SUPPORTS CARTRIDGE TYPES :**

Slim and Jumbo (single-layer only)

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- **MARKET RECEPTION:**

Highly regarded for reliability & versatility

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- **LIMITATION:**

single layer winding only

This generation established the foundation for precision-wound filters and is now referred to as the **1<sup>st</sup> Generation Winding Technology.**



## EVOLUTION OF MANUFACTURING TECHNOLOGY

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### 2<sup>nd</sup> Generation: Electronic Ratio-Based Winding Machines

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Building on our experience, we introduced Electronic ratio based Winding Machines featuring:

- **Cartridge Range:**  
5" to 70" lengths, 0.5  $\mu$  to 100  $\mu$  micron ratings



### Key Attributes:

- **MICRON PATTERN CONTROL:**

Enter a **five-digit ratio** code via touchscreen (software calculated)

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- **MECHANICAL SIMPLIFICATION:**

No manual gear adjustments.

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- **USER INTERFACE:**

Intuitive digital control panel.

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- **CARTRIDGE TYPES SUPPORTED:**

Slim and Jumbo (single-layer only).

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- **LIMITATION:**

Still limited to single-layer cartridge winding.

This generation introduced a software-driven approach to pattern control and significantly enhanced user convenience.

## REVOLUTIONIZING WOUND FILTER CARTRIDGE PRODUCTION

**Crafted with innovation for  
next-generation filtration**

- Advanced technology for precision & performance
- Efficient and reliable manufacturing
- Scalable solutions for diverse industries



|                  |                                     |
|------------------|-------------------------------------|
| Machine Type     | Inline                              |
| Motor (RPM)      | 1400 RPM                            |
| Capacity (PCS/H) | 35-50 according to cartridge length |
| Filter length    | 8.50 / 8.75 / 9.25 inch             |
| Diameter range   | Max 100mm                           |
| Filter precision | 0.5-100micron                       |
| Raw material     | Yarn (PP, Cotton etc) & Core (PP)   |
| Voltage          | 1P/230V/50Hz                        |

## LAGOON<sup>®</sup> MELT BLOWN FILTERS



**ENGINEERED FOR EXCEPTIONAL  
FILTRATION, THERMAL STABILITY,  
AND EXTENDED SERVICE LIFE**

- Suitable for Domestic purposes.
- Graded pore structure offers superior filtration.
- Extremely light weight with a seamless finish



Manufactured from materials which are listed for food contact applications in Title 21 CFR 177.1520 (Olefin Polymers) of the U.S. Code of Federal Regulations.

| Technical Name | Melt Blown Filter Cartridges (Medium Density)                                                                                                                       |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Raw Material   | Virgin Polypropylene                                                                                                                                                |
| ID             | 20-35mm±                                                                                                                                                            |
| OD             | 50-63mm± 1mm Jumbo 114± 2mm                                                                                                                                         |
| Length         | 5"-50" 127mm to 1778mm                                                                                                                                              |
| Microns        | 1-100μ                                                                                                                                                              |
| Construction   | Polypropylene fibres are extruded through tiny perforations under pressure and high temperature on a rotating mandrel, forming three layers for gradient filtration |
| Flow           | 1m <sup>3</sup> per hour per 10" at pressure of 2.5Kg/cm <sup>2</sup>                                                                                               |
| Temperature    | Max. 60° C                                                                                                                                                          |

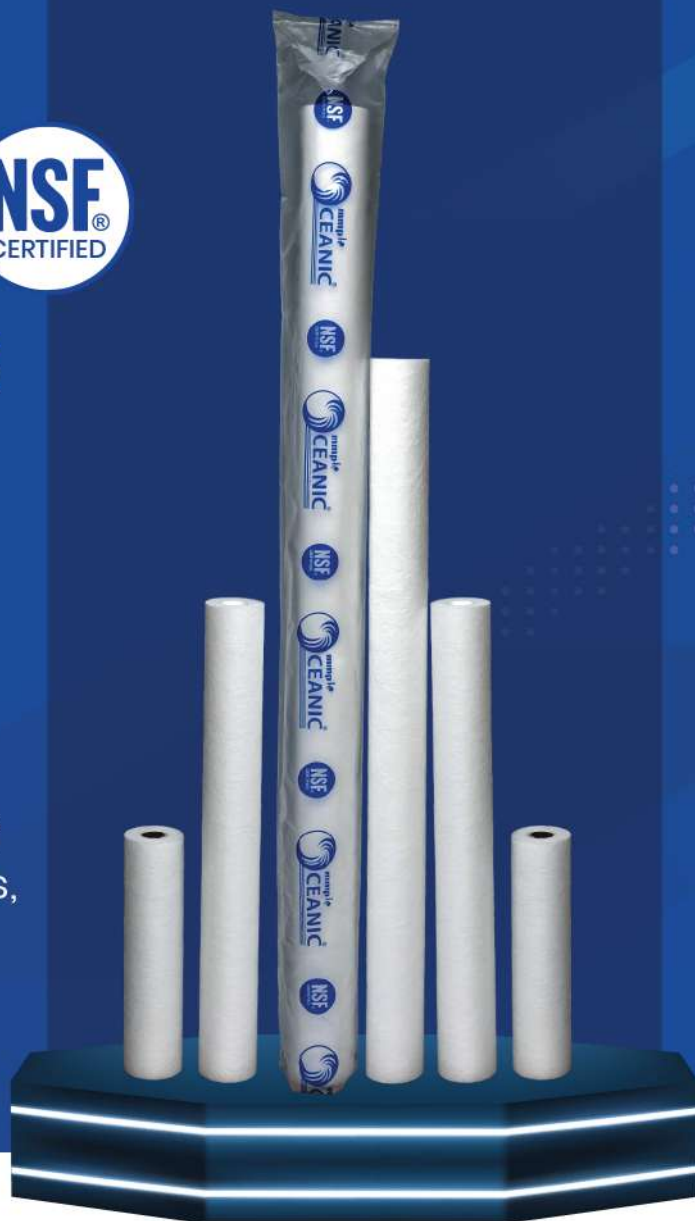


## OCEANIC<sup>®</sup> MELT BLOWN FILTERS



**ENGINEERED FOR EXCEPTIONAL  
FILTRATION, THERMAL STABILITY,  
AND EXTENDED SERVICE LIFE**

- suited for fine particle filtration and coarse filtration.
- Compatible with a wide range of fluids, including water, chemicals, oils, and gases.
- Longer service life.



Manufactured from materials which are listed for food contact applications in Title 21 CFR 177.1520 (Olefin Polymers) of the U.S. Code of Federal Regulations.

| Technical Name | Melt Blown Filter Cartridges (High Density)                                                                                                                          |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Raw Material   | Virgin Polypropylene                                                                                                                                                 |
| ID             | 20-35mm±                                                                                                                                                             |
| OD             | 40-114mm±                                                                                                                                                            |
| Length         | 5"-70" 127mm to 1778mm                                                                                                                                               |
| Microns        | 0.5-100μ                                                                                                                                                             |
| Construction   | Polypropylene fibres are extruded through tiny Perforations under pressure and high temperature on a rotating mandrel, forming three layers for gradient filtration. |
| Flow           | 1m <sup>3</sup> per hour per 10" at pressure of 3.5Kg/cm <sup>2</sup>                                                                                                |
| Temperature    | Max. 60° C                                                                                                                                                           |

## PYLOORITE<sup>®</sup> PLEATED FILTER CARTRIDGES

### TAILORED FOR PURE WATER WITH PRECISE DESIGN

- Innovative construction ensures pure water consistently in a sleek, seamless 20-inch design.
- Customized precision with micron options ranging from 0.1 to 10μ.
- Constructed with premium virgin polypropylene.



| Technical Name | PP Pleated Filter Cartridges                                                         |
|----------------|--------------------------------------------------------------------------------------|
| Raw Material   | Virgin Polypropylene                                                                 |
| ID             | 27 mm                                                                                |
| OD             | 65 mm or as required by customer                                                     |
| Length         | 5" 10" 20" 30" 40" & 50"                                                             |
| Microns        | 0.1, 0.2, 0.45, 1, 2, 5 & 10μ                                                        |
| Construction   | Inside and outside perforated core,<br>In between pleated membrane filtration media. |
| Top & Bottom   | DOE (Double open end)<br>SOE (Single open end)                                       |
| Flow           | 1m <sup>3</sup> per hour per 10" at pressure of 2.5kg/cm <sup>2</sup>                |
| Temperature    | 60° C                                                                                |



## HIGH FLOW PLEATED FILTER CARTRIDGE

**HIGH FLOW RATE, AND ROBUST  
CONSTRUCTION FOR OPTIMAL  
PARTICLE CAPTURE.**

- Comes with a filtration area and versatile chemical compatibility
- High flow rate, coupled with robust construction for long-lasting durability.
- Optimal particle capture and has good dirt-holding capacity.



### Application

Sea water desalination

Oil & Chemical

Food and Beverages

White Fuels

Process Water

Amine, Glycol

Power plant water treatment

Naphtha, HC Condensate

RO Guard Pre-filtration

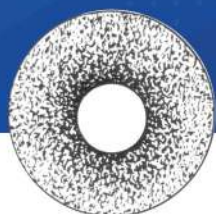
Steel mill water treatment



# RESIN BONDED FILTER CARTRIDGES

## MRB SERIES

- High dirt-holding capacity
- Chemical-resistant resin bonded filters
- Strong, durable, and long-lasting
- Versatile for water treatment, pharma, food & beverage, and chemicals.



Cross-sectional view for  
graded porosity of MRB series  
resin bonded filter



| Operating Data*    | RBF Series                                                      |
|--------------------|-----------------------------------------------------------------|
| Material           | Phenolic Resin & Composite Fiber                                |
| Max Temperature    | 135°C                                                           |
| Operating Pressure | 0.45MPa                                                         |
| Solvent Resistance | Expansion rate <2%<br>(Ketones, Ethers, Phenols, Alcohols etc.) |
| Anti-shrinkage     | No shrinkage and depression                                     |
| Inner Diameter     | 29mm                                                            |
| Outer Diameter     | 63-65mm                                                         |
| Length             | 3.75 to 40 inch                                                 |
| Micro Rating       | 1, 5, 10, 25, 50, 75, 100, 125, 150, 200µm                      |

## RESIN BONDED FILTER CARTRIDGES

### MAB SERIES

- Robust Structure
- High Dirt-Holding Capacity
- Varied Micron Ratings
- Chemical Resistance

Cross-sectional view for  
Multi-layer of MAB Series  
Resin Bonded filter



| Operating Data*    | MAB Series                                                      |
|--------------------|-----------------------------------------------------------------|
| Material           | Phenolic Resin & Composite Fiber                                |
| Max Temperature    | 135°C                                                           |
| Operating Pressure | 0.45MPa                                                         |
| Solvent Resistance | Expansion rate <2%<br>(Ketones, Ethers, Phenols, Alcohols etc.) |
| Anti-shrinkage     | No shrinkage and depression                                     |
| Inner Diameter     | 29mm                                                            |
| Outer Diameter     | 63-65mm                                                         |
| Length             | 3.75 to 40 inch                                                 |
| Micro Rating       | 1, 5, 10, 25, 50, 75, 100, 125, 150, 200µm                      |



## PARTNERSHIP OPPORTUNITIES FOR EXCELLENCE IN WOUND POLYPROPYLENE FILTER CARTRIDGES

**With over 30 years of experience**, Hydro<sup>®</sup> Wound is a trusted name in the filtration industry. We are proud to be the only company in India that manufactures most of the necessary raw materials for wound filter cartridges. Our expertise and commitment to quality ensure that our products meet the highest standards.

### Why Choose Hydro<sup>®</sup> Wound?

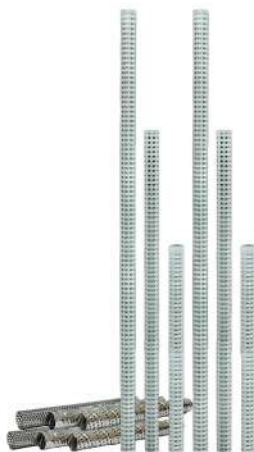


#### In-House Manufacturing

We produce all essential components, including yarn, cores, wound filter cartridge machine and of course our Hydro<sup>®</sup> Wound cartridges too.



**DREF SPUN  
YARN FOR  
FILTRATION**



**PP CORE  
FOR FILTER  
CARTRIDGE**



**WINDING MACHINE  
FOR WOUND  
FILTER**



**HYDRO<sup>®</sup>  
WOUND  
FILTER  
CARTRIDGE**



#### Customized Solutions

We offer customized solutions to meet specific filtration requirements.



#### Proven Track Record

Our long-standing presence in the market is a testament to our reliability and expertise.



## Wound Filter Cartridges

Hydro<sup>®</sup> Wound polypropylene / Absorbent Bleached Cotton filter cartridges are designed for optimal performance and reliability. Our filters are ideal for various applications, including:



Water Treatment



Petroleum



Chemical



Pharmaceuticals



Food & Dairy

## Key Features



### Superior Filtration

Our filters provide exceptional dirt-holding capacity and high flow rates.



### Durability

Made with high-quality polypropylene / Absorbent bleached cotton our cartridges are built to last.



### Versatility

Suitable for a wide range of filtration needs, ensuring clean and safe operations.

## Partnership Opportunities

Hydro<sup>®</sup> Wound offers more than just top-quality products. For businesses interested in manufacturing their own fully professional filter cartridges, we provide:

**Raw Materials:** High-grade yarn and cores.

**Manufacturing Machines:** State-of-the-art machinery for producing wound filter cartridges.

**Technical Support:** Comprehensive guidance and support to ensure successful production.





HIGH-PERFORMANCE  
**AIR FILTRATION**  
PRODUCTS WITH PRECISION ENGINEERING



PETROLEUM



CHEMICAL



PHARMACEUTICALS



FOOD & DAIRY



ENERGY



DESALINATION



# PLEATED FILTER BAGS

**DURABLE, COMPATIBLE, AND  
OPTIMAL FOR VARIOUS  
FILTRATION SYSTEMS.**

- Different fabric options with various coatings and flexible pleat depths.
- Compatible with various filtration systems.
- Made with durable materials.



| Technical Name                           | Pleated Filter Bags                                                                                               |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Fabric                                   | Spun bonded: Polyester, Polypropylene, Aramid, PPS, PTFE<br>Non woven: Polyester, Aramid, PPS, PTFE Coating       |
| Coating                                  | PTFE membrane lamination, Oil and Water repellent, Antistatic, Oil and water repellent + antistatic, PTFE coating |
| Pleats                                   | 16mm & 25mm (standard pleat depth) As required by the customer                                                    |
| Top & Bottom                             | Mild Steel, Galvanized Iron, Stainless steel, Polyurethane                                                        |
| Fitment suitable for cell plate diameter | 130mm, 160mm, As required by the customer                                                                         |
| Length                                   | As required by customer                                                                                           |



# PLEATED FILTER CARTRIDGES

**LONG-LASTING PERFORMANCE,  
SYSTEM COMPATIBILITY, AND  
CUSTOMIZED SIZING**

- Pleatex Pleated Cartridges are offered in tailored fabric, coating, and pleat options for adaptable filtration solutions.
- Crafted for enduring performance and compatibility with various systems.
- Flexible fitment options and tailored sizing.



| Technical Name    | Pleated Cartridges                                                                                                    |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|
| Fabric            | Spun bonded, Polypropylene, Aramid (Nomex), PPS, PTFE, Cellulose                                                      |
| Coating on Fabric | PTFE membrane lamination, Oil and Water repellent<br>Antistatic, Oil and water repellent + antistatic<br>PTFE coating |
| Pleats            | 16mm – 48mm (standard pleats)<br>As required by the customer                                                          |
| Top & Bottom      | SS, Aluminium, MS                                                                                                     |
| Fitment           | 3 lugs/Din/PCD type<br>Loading from top or from bottom as required                                                    |
| Length            | 3 Lug: 150, 222 & 325mm size<br>Din Type Size: as required by the customer<br>PCD Type Size: as required by customer  |
| OD                | 3 Lug: 150, 222 & 325mm size<br>Din Type Size: as required by the customer<br>PCD Type Size: as required by customer  |
| ID                | According to OD                                                                                                       |
| Length            | As required by customer                                                                                               |

## M-TEX DUST COLLECTOR BAGS

**CUSTOMIZABLE EFFICIENCY, TAILORED FILTRATION WITH VERSATILE FABRICS, FITMENT OPTIONS, AND LENGTH CUSTOMIZATION.**

- Efficient Dust Capture with Variable coatings.
- Offering a variety of fabrics for tailored filtration.
- It can be modified as per customer requirements and applications.



| Technical Name    | Non Woven Dust Collector bags<br>Woven Dust Collector bags                                                                                               |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fabric            | Polyester, Meta-aramid (Nomex), Acrylic homopolymer, Acrylic co-polymer, Polyphenylene Sulphide (PPS), Polyimide (P84), Glass Fibre, Polypropylene, PTFE |
| Coating on Fabric | Oil and water repellent, Antistatic, Oil and water repellent + antistatic PTFE coating, PTFE membrane lamination                                         |
| Fitment           | Snap Band/Collar/Rope type                                                                                                                               |
| Joint             | Stitching/Heat Sealing                                                                                                                                   |
| ID & OD           | As required by the customer                                                                                                                              |
| Length            | As required by the customer                                                                                                                              |



## CAGES FOR DUST COLLECTOR FILTER BAGS

**HIGH-END CAGES MANUFACTURED  
WITH PRECISION, VARIABLE CONFIGURATIONS,  
AND ROBUST SUPPORT GRIDS.**

- Offer material options like Mild Steel, Stainless Steel, and Galvanized Iron for diverse filtration conditions.
- Variable rods and rings meet unique filtration requirements.
- Support grids & diverse Venturi options like Stainless Steel, Galvanized Iron, Cast Iron, and Aluminium.
- Automatic Welding



| MOC               | MS   SS   GI                 |
|-------------------|------------------------------|
| No. of Rods       | As required by the customer  |
| No. of Rings      | As required by the customer  |
| Thickness of wire | 3mm to 4mm                   |
| Venturi MOC       | SS, GI, Cast Iron, Aluminium |
| Length            | As required by the customer  |





**DIN  
FILTER CARTRIDGE WITH  
OUTER EXPANDABLE**



**DIN  
CARTRIDGE FILTER**



**DIN  
CARTRIDGE FILTER**



**PU  
PLEATED BAG**



**DIN  
COLLAR FILTER  
CARTRIDGE**



**M-TEX DUST  
COLLECTOR BAGS**



**PLEATED  
FILTER BAGS**



**CAGES FOR DUST  
COLLECTOR FILTER BAGS**



**TENKAY  
CARTRIDGE FILTER**



**BAYONET FILTER  
CARTRIDGE**



**STANDARD FILTER  
CARTRIDGE**



**STANDARD FILTER  
CARTRIDGE**



**STANDARD FILTER  
CARTRIDGE CONICAL**

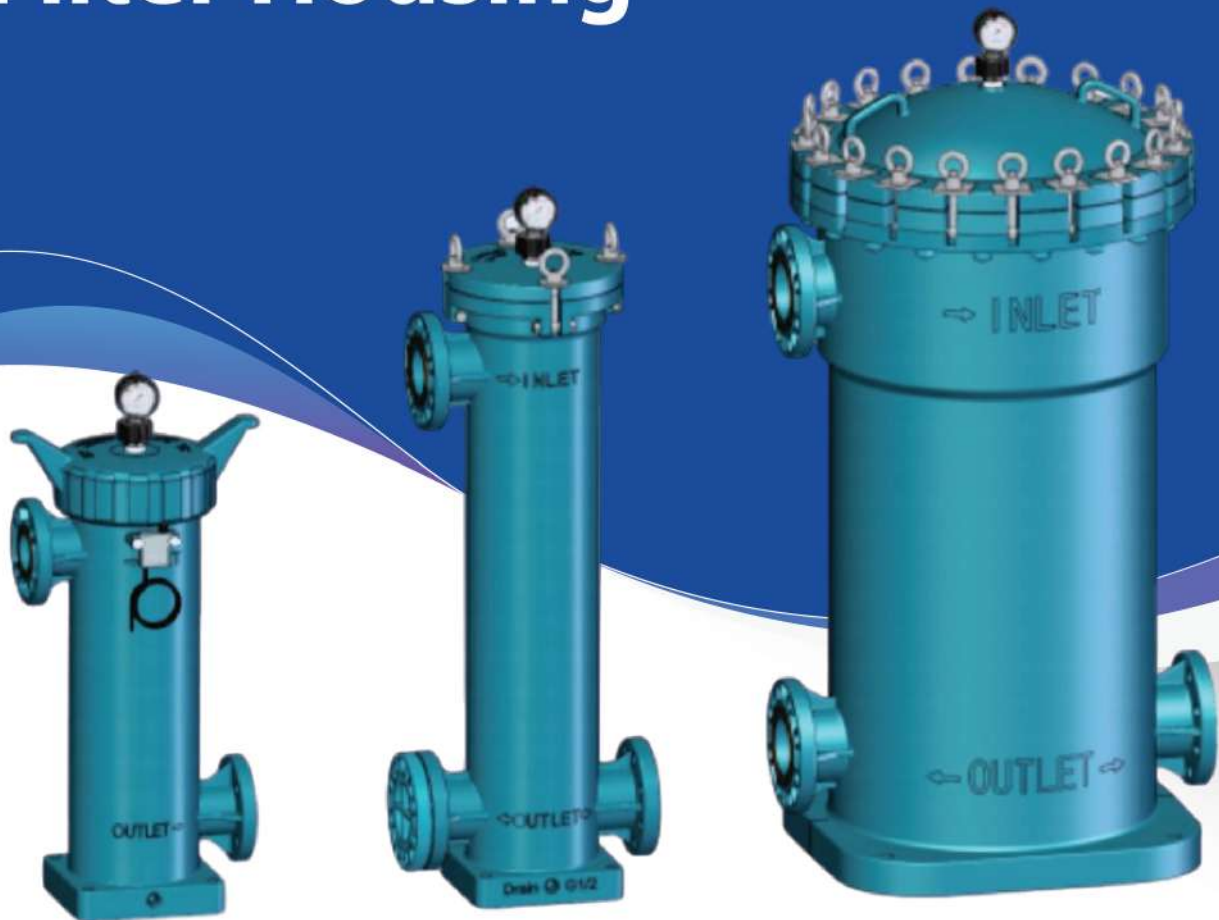
# mmp<sup>®</sup>

## POLYPROPYLENE HOMOPOLYMER FILTER HOUSING





## Polypropylene Homopolymer Filter Housing



Polypropylene Homopolymer filter housing make up for the unsuitable use of stainless steel housings. Because in the filtration of strong acids and alkalis and strong corrosive liquids, stainless steel filter housing cannot be used, so polypropylene homopolymer cartridge filter housing has their remarkable superior performance. The polypropylene homopolymer housing is one-piece injection molding, no seams, no dead ends, easy to clean, good sealing, with strict leak proof design, the filtrate will not bypass, not leak, suitable for installing various depth filter elements, it has good filtration effect and long service life. Polypropylene homopolymer filter housing is a high quality, high efficiency, economical and practical excellent filtration system.

## Features

- All-match international standard for inlet and outlet flanges.
- No effusion: smooth interior and good sealing design, no residual liquid in the filter.
- High pressure resistance maximum working pressure 8 bar, working temperature 90°C.
- Good sealing: all the sealing rings are made of fluorine rubber, which makes the corrosion resistance better.
- Conventional operation: quick opening and easy installation and disassembly, easy to replace filter element consumables.
- Acid and alkali resistance suitable for 30% concentration of hydrochloric acid less than 80% concentration of sulfuric acid.
- Seamless barrel: The housing and flanges are injection molded at one time, without seams, with a smooth appearance and no leakage points.

## Specifications

|                    |                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------|
| Housing Materials  | Polypropylene Homopolymer                                                                                 |
| Housing direction  | Vertical                                                                                                  |
| Depth filter type  | String Wound Cartridge<br>Melt Blown Cartridge<br>Pleated Cartridge<br>Filter Bags<br>High flow Cartridge |
| Housing Thickness  | 16 mm, 22 mm                                                                                              |
| Connection         | Side port, Bottom port                                                                                    |
| Inlet/ Outlet Type | Flange                                                                                                    |
| Inlet/Outlet Size  | DN40, DN50, DN65, DN80 DN100                                                                              |
| Sealing Type       | Screwing cap type, Swing bolt type                                                                        |
| Seal material      | Viton                                                                                                     |

## Applications



PCB  
Industry



Metal  
Plating



LED  
Equipment



Potion  
Processing



Chemical  
Industry



Inks &  
Coatings



Sewage  
Treatment



Acid base  
Solution Filtration



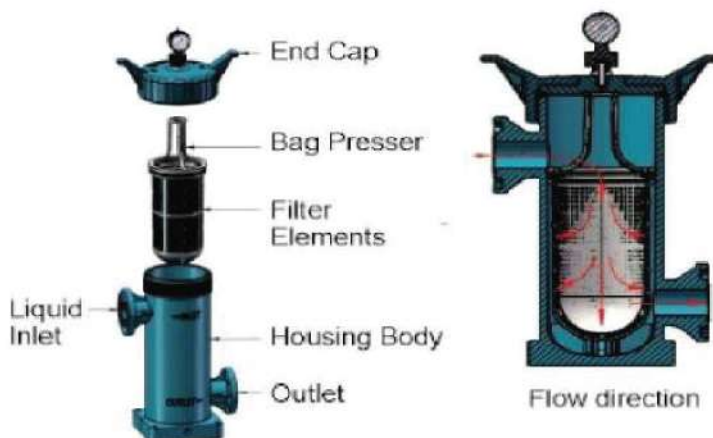
Desalination  
Plant

# mmp® Bag Filter Series

MMP-B 1.5 -TS  
MMP-B2-RF



MMP-B1-TS



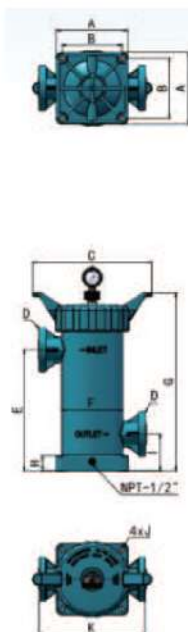
## Specifications

## Bag Filter Assembly

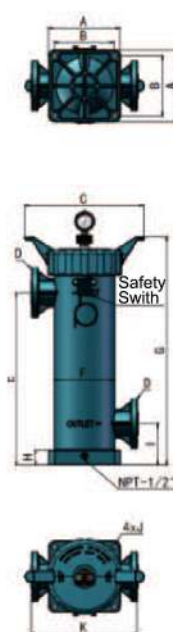
| Model                  | MMP-B1-TS                 | MMP-B 1.5 -TS             | MMP-B2-RF                 |
|------------------------|---------------------------|---------------------------|---------------------------|
| Description            | 7/16 Filter Bag Assembly  | 7/22 Filter Bag Assembly  | 7/32 Filter Bag Assembly  |
| Material               | Polypropylene Homopolymer | Polypropylene Homopolymer | Polypropylene Homopolymer |
| Max. Flow (m³/h)       | 15 m³/h                   | 20 m³/h                   | 25 m³/h                   |
| Inlet/Outlet (mm)      | DN 50mm/2 inch            | DN 65mm/2.5 inch          | DN 80mm/3 inch            |
| Design Pressure (MPa)  | 0.8                       | 0.8                       | 0.8                       |
| Max. Temperature (°C)  | 90                        | 90                        | 90                        |
| Compatible Elements    | Bag Filter 7"x16"         | Bag Filter 7"x22"         | Bag Filter 7"x32"         |
| Element Size. Quantity | 180*410mm.1pcs            | 180*560mm .1pcs           | 180*810mm .1pcs           |

## Filter Housing Measure Guide

MMP-B1-TS



MMP-B 1.5 -TS



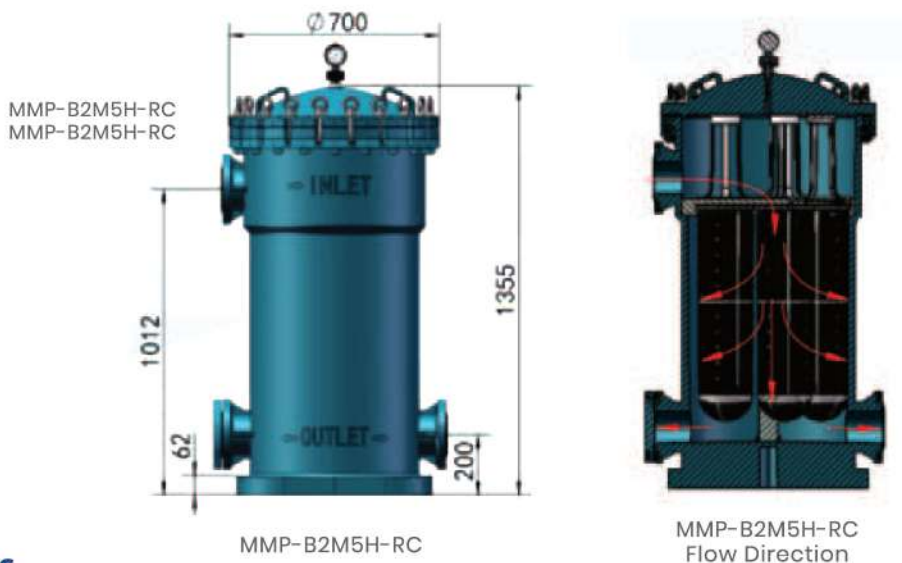
MMP-B2-RF



| Model         | A   | B   | C   | D   | E   | F   | G   | H    | I   | J   | K   |
|---------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|
| MMP-B1-TS     | 265 | 222 | 440 | 50  | 447 | 230 | 657 | 56   | 135 | 19  | 395 |
| MMP-B 1.5 -TS | 265 | 222 | 440 | 65  | 636 | 230 | 850 | 56   | 153 | 19  | 395 |
| MMP-B2-RF     | 265 | 226 | 19  | 310 | 50  | 850 | 230 | 1010 | 56  | 155 | 395 |



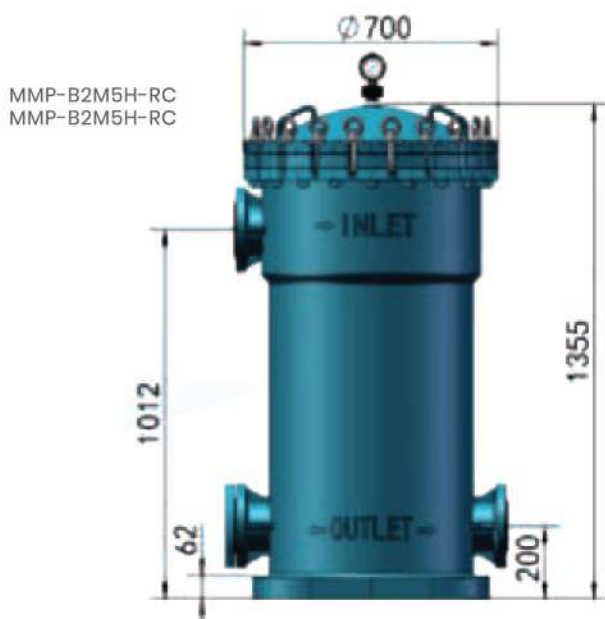
# mmp® Multi Bag Filter Series (mmp® MBF Series)



## Specifications

| Model                  | MMP-B2M5H-RC              | MMP-B2M5H-RC              |
|------------------------|---------------------------|---------------------------|
| Description            | 7/32 Filter Bag Assembly  | 7/32 Filter Bag Assembly  |
| Material               | Polypropylene Homopolymer | Polypropylene Homopolymer |
| Max. Flow (m³/h)       | 80 m³/h                   | 180 m³/h                  |
| Inlet/Outlet (mm)      | DN 100mm/4 inch           | DN 150mm/6 inch           |
| Design Pressure (MPa)  | 0.8                       | 0.8                       |
| Max. Temperature (°C)  | 80                        | 80                        |
| Compatible Elements    | Bag Filter 7"x32"         | Bag Filter 7"x32"         |
| Element Size. Quantity | 180*810 mm.5pcs           | 180*810 mm.5pcs           |

## Filter Housing Measure Guide



| Model        | A   | B   | C   | D   | E    | F   | G    | H  | I   | J  | K   |
|--------------|-----|-----|-----|-----|------|-----|------|----|-----|----|-----|
| MMP-B2M5H-RC | 652 | 525 | 700 | 100 | 1012 | 565 | 1355 | 62 | 200 | 22 | 753 |
| MMP-B2M5H-RC | 652 | 525 | 700 | 150 | 1012 | 565 | 1355 | 62 | 200 | 22 | 753 |

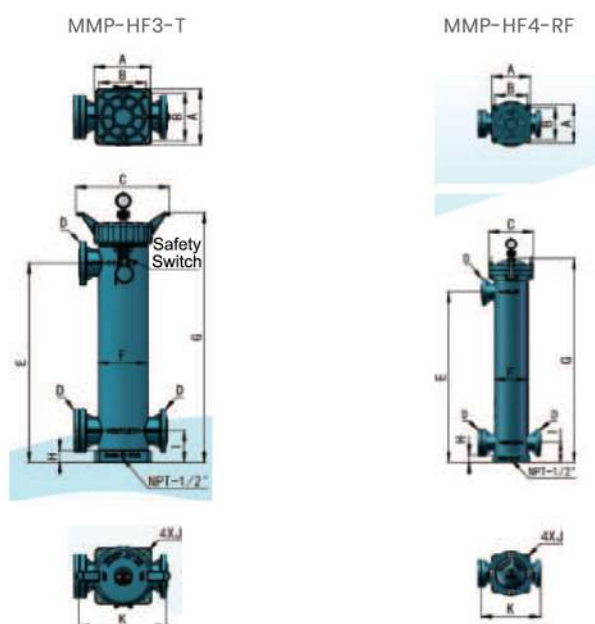
# mmp® High Flow Series (mmp® HF Series)



## Specifications

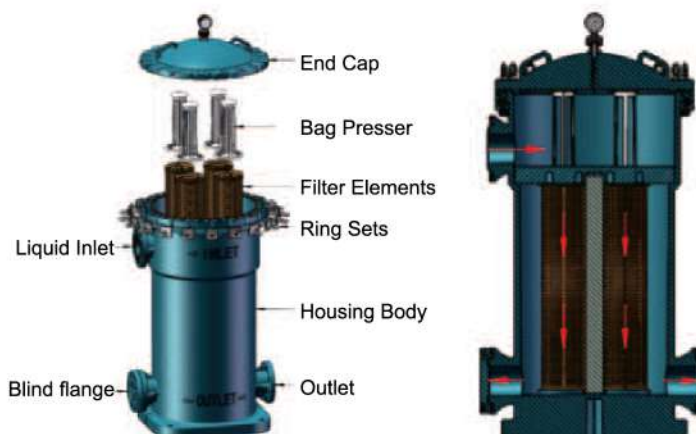
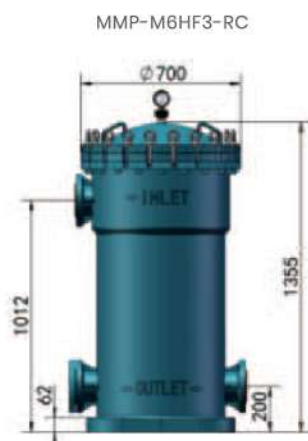
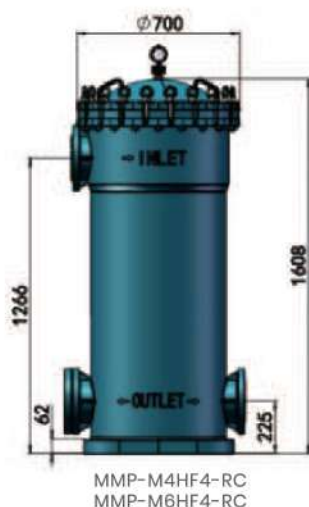
| Model                  | MMP-HF3-T                 | MMP-HF4-RF                |
|------------------------|---------------------------|---------------------------|
| Description            | 6/30 High Flow            | 6/40 High Flow            |
| Material               | Polypropylene Homopolymer | Polypropylene Homopolymer |
| Max. Flow (m³/h)       | 50 m³/h                   | 35 m³/h                   |
| Inlet/Outlet (mm)      | DN 80mm/3 inch            | DN 65mm/2.5 inch          |
| Design Pressure (MPa)  | 0.8                       | 0.8                       |
| Max. Temperature (°C)  | 90                        | 90                        |
| Compatible Elements    | Pall High Flow Filter     | Pall High Flow Filter     |
| Element Size, Quantity | 152*762 mm.1pc            | 152*1016 mm.1pc           |

## Filter Housing Measure Guide



| Model      | A   | B   | C   | D  | E    | F   | G    | H  | I   | J  | K   |
|------------|-----|-----|-----|----|------|-----|------|----|-----|----|-----|
| MMP-HF3-T  | 265 | 225 | 440 | 80 | 940  | 230 | 1175 | 56 | 148 | 19 | 415 |
| MMP-HF4-RF | 265 | 225 | 310 | 65 | 1188 | 230 | 1420 | 56 | 140 | 19 | 412 |

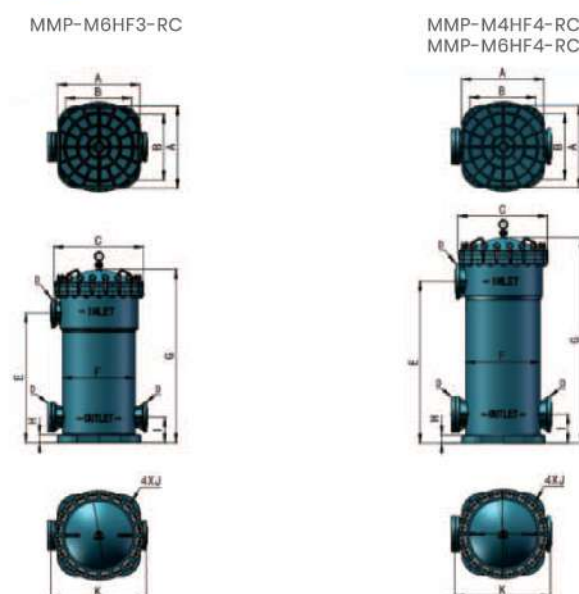
# mmp® Multi High Flow Series (mmp® MHF Series)



## Specifications

| Model                  | MMP-M6HF3-RC                                       | MMP-M4HF4-RC                                       | MMP-M6HF4-RC                                       |
|------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Description            | 6" / 30" High Flow<br>6 High Flow Filter Cartridge | 6" / 40" High Flow<br>4 High Flow Filter Cartridge | 6" / 40" High Flow<br>6 High Flow Filter Cartridge |
| Material               | Polypropylene Homopolymer                          | Polypropylene Homopolymer                          | Polypropylene Homopolymer                          |
| Max. Flow (m³/h)       | 80 m³/h                                            | 180 m³/h                                           | 180 m³/h                                           |
| Inlet/Outlet (mm)      | DN 100mm/4 inch                                    | DN 150mm/6 inch                                    | DN 150mm/6 inch                                    |
| Design Pressure (MPa)  | 0.8                                                | 0.8                                                | 0.8                                                |
| Max. Temperature (°C)  | 90                                                 | 90                                                 | 90                                                 |
| Compatible Elements    | Pall High Flow Filter                              | Pall High Flow Filter                              | Pall High Flow Filter                              |
| Element Size. Quantity | 152*762 mm.6pcs                                    | 152*1016 mm.4pcs                                   | 152*1016 mm.6pcs                                   |

## Filter Housing Measure Guide



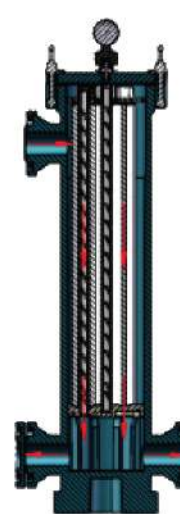
| Model        | A   | B   | C   | D   | E    | F   | G    | H  | I   | J  | K   |
|--------------|-----|-----|-----|-----|------|-----|------|----|-----|----|-----|
| MMP-M6HF3-RC | 652 | 525 | 700 | 100 | 1032 | 565 | 1355 | 62 | 200 | 22 | 753 |
| MMP-M4HF4-RC | 652 | 525 | 700 | 150 | 1266 | 582 | 1608 | 62 | 225 | 22 | 753 |
| MMP-M6HF4-RC | 652 | 525 | 700 | 150 | 1266 | 582 | 1608 | 62 | 225 | 22 | 753 |



# mmp® DOE Series

MMP-C1M5-T-DOE  
MMP-C2-M5-T-DOE

MMP-C3-M5-T-DOE  
MMP-C4M5-RF-DOE

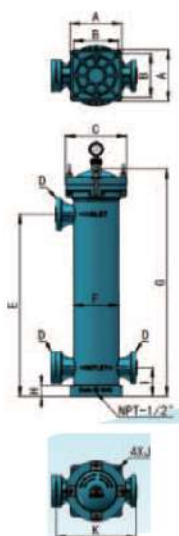


## Specifications

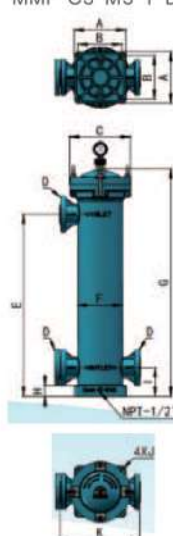
| Model                  | MMP-C1M5-T-DOE                                    | MMP-C2-M5-T-DOE                                   | MMP-C3M5-T-DOE                                    | MMP-C4M5-RF-DOE                                   |
|------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Description            | DOE 5 Element 10"                                 | DOE 5 Element 20"                                 | DOE 5 Element 30"                                 | DOE 5 Element 40"                                 |
| Material               | Polypropylene<br>Homopolymer                      | Polypropylene<br>Homopolymer                      | Polypropylene<br>Homopolymer                      | Polypropylene<br>Homopolymer                      |
| Max. Flow (m³/h)       | 5 m³/h                                            | 10 m³/h                                           | 15 m³/h                                           | 20 m³/h                                           |
| Inlet/Outlet (mm)      | DN 50mm/2 inch                                    | DN 65mm/2.5 inch                                  | DN 65mm/2.5 inch                                  | DN 80mm/3 inch                                    |
| Design Pressure (MPa)  | 0.8                                               | 0.8                                               | 0.8                                               | 0.8                                               |
| Max. Temperature (°C)  | 90                                                | 90                                                | 90                                                | 90                                                |
| Compatible Elements    | DOE Cartridge 5 Element<br>10 Inch Filter Housing | DOE Cartridge 5 Element<br>20 Inch Filter Housing | DOE Cartridge 5 Element<br>30 Inch Filter Housing | DOE Cartridge 5 Element<br>40 Inch Filter Housing |
| Element Size. Quantity | 68*254 mm.5pcs                                    | 68*508 mm.5pcs                                    | 68*762 mm.5pcs                                    | 68*1016 mm.5pcs                                   |

## Filter Housing Measure Guide

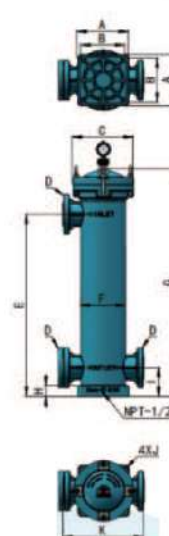
MMP-C1M5-T-DOE



MMP-C2-M5-T-DOE  
MMP-C3-M5-T-DOE

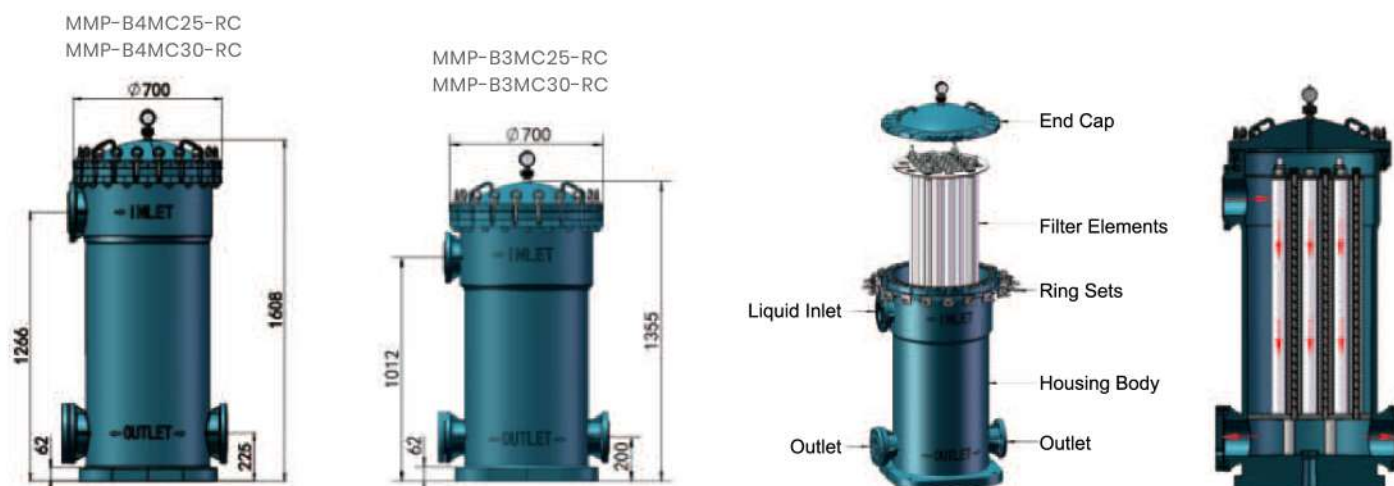


MMP-C4M5-RF-DOE



| Model           | A   | B   | C   | D  | E    | F   | G    | H  | I   | J  | K   |
|-----------------|-----|-----|-----|----|------|-----|------|----|-----|----|-----|
| MMP-C1M5-T-DOE  | 265 | 225 | 440 | 50 | 447  | 230 | 657  | 56 | 135 | 19 | 315 |
| MMP-C2-M5-T-DOE | 265 | 222 | 440 | 50 | 865  | 230 | 1085 | 56 | 148 | 19 | 392 |
| MMP-C3-M5-T-DOE | 265 | 225 | 440 | 65 | 940  | 230 | 1175 | 56 | 148 | 19 | 415 |
| MMP-C4M5-RF-DOE | 265 | 225 | 310 | 65 | 1188 | 230 | 1420 | 56 | 140 | 19 | 412 |

# mmp® Multi Filter Cartridges Series (mmp® MHF Series)



## Specifications

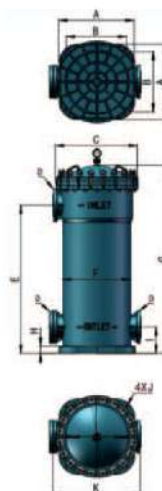
| Model                  | MMP-B3MC25-RC                                      | MMP-B3MC30-RC                                      | MMP-B4MC25-RC                                      | MMP-B4MC30-RC                                      |
|------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Description            | DOE 25 Element 30"<br>Multi Cartridge Assembly     | DOE 30 Element 30"<br>Multi Cartridge Assembly     | DOE 25 Element 40"<br>Multi Cartridge Assembly     | DOE 30 Element 40"<br>Multi Cartridge Assembly     |
| Material               | Polypropylene<br>Homopolymer                       | Polypropylene<br>Homopolymer                       | Polypropylene<br>Homopolymer                       | Polypropylene<br>Homopolymer                       |
| Max. Flow (m³/h)       | 40 m³/h                                            | 45 m³/h                                            | 75 m³/h                                            | 90 m³/h                                            |
| Inlet/Outlet (mm)      | DN 100mm/4 inch                                    | DN 100mm/4 inch                                    | DN 150mm/6 inch                                    | DN 150mm/6 inch                                    |
| Design Pressure (MPa)  | 0.8                                                | 0.8                                                | 0.8                                                | 0.8                                                |
| Max. Temperature (°C)  | 90                                                 | 90                                                 | 90                                                 | 90                                                 |
| Compatible Elements    | DOE Cartridge 25 Element<br>30 Inch Filter Housing | DOE Cartridge 30 Element<br>30 Inch Filter Housing | DOE Cartridge 25 Element<br>40 Inch Filter Housing | DOE Cartridge 30 Element<br>40 Inch Filter Housing |
| Element Size, Quantity | 68*762 mm.25pcs                                    | 68*762 mm.30pcs                                    | 68*1016 mm.25pcs                                   | 68*1016 mm.30pcs                                   |

## Filter Housing Measure Guide

MMP-B3MC25-RC  
MMP-B3MC30-RC

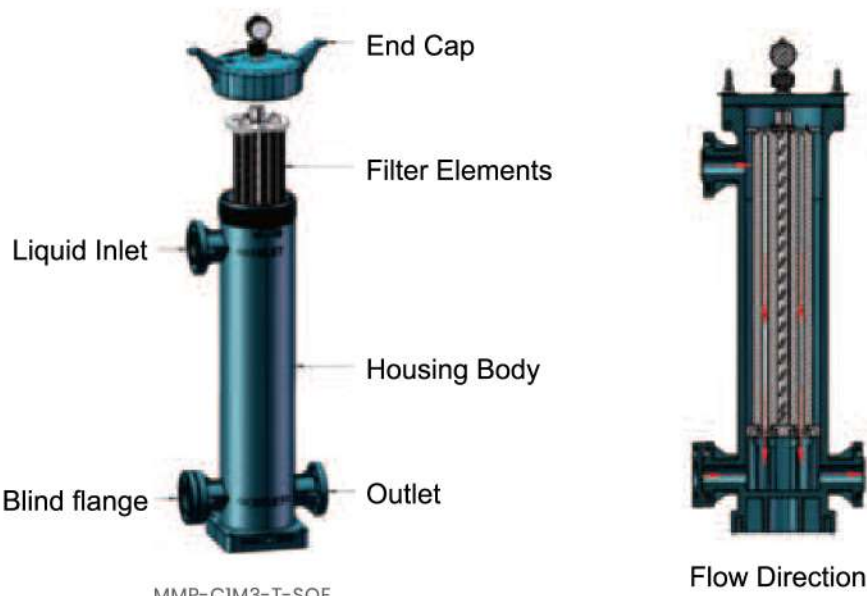


MMP-B4MC25-RC  
MMP-B4MC30-RC



| Model         | A   | B   | C   | D   | E    | F   | G    | H  | I   | J  | K   |
|---------------|-----|-----|-----|-----|------|-----|------|----|-----|----|-----|
| MMP-B3MC25-RC | 652 | 525 | 700 | 100 | 1012 | 565 | 1355 | 62 | 200 | 22 | 753 |
| MMP-B3MC30-RC | 652 | 525 | 700 | 100 | 1012 | 565 | 1355 | 62 | 200 | 22 | 753 |
| MMP-B4MC25-RC | 652 | 525 | 700 | 150 | 1266 | 582 | 1608 | 62 | 225 | 22 | 753 |
| MMP-B4MC30-RC | 652 | 525 | 700 | 150 | 1266 | 582 | 1608 | 62 | 225 | 22 | 753 |

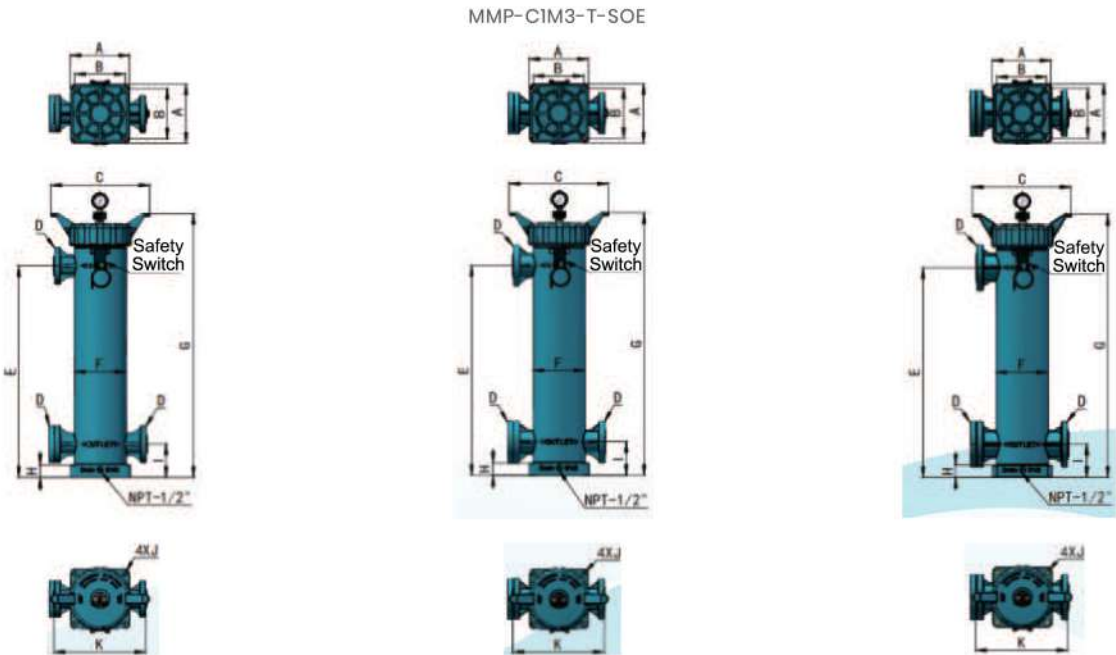
# mmp® SOE Series



## Specifications

| Model                  | MMP-CIM3-T-SOE                             |
|------------------------|--------------------------------------------|
| Material               | SOE 3 Element 10"                          |
| Max. Flow (m³/h)       | 2.5 m³/h                                   |
| Inlet/Outlet (mm)      | DN 50mm/2 inch                             |
| Design Pressure (MPa)  | 0.8                                        |
| Max. Temperature (°C)  | 90                                         |
| Compatible Elements    | SOE (222/FIN) PP Pleated 3 Element 10 Inch |
| Element Size. Quantity | 68*254 mm.3pcs                             |

# Filter Housing Measure Guide



| Model          | A   | B   | C   | D  | E   | F   | G    | H  | I   | J  | K   |
|----------------|-----|-----|-----|----|-----|-----|------|----|-----|----|-----|
| MMP-CIM3-T-SOE | 265 | 225 | 440 | 50 | 940 | 230 | 1175 | 56 | 148 | 19 | 415 |





## ADVANTAGE

- 1 The filter housing is Integrated molded, with a sturdy structure. Safe and reliable, easy to install and no welding. High temperature, high pressure and corrosion resistance
- 2 The integrated national standard flange and bolt hole spacing are multifunctional, compatible with national, American, Japanese, and German standard flanges, easy to install, and sealed without leakage
- 3 Fluororubber sealing ring has high temperature resistance and is suitable for most acidic and alkaline solutions, thereby saving accessories and consumables and reducing consumable costs
- 4 The filter basket is integrally formed, and the outer surface of the mesh basket is designed with uniformly distributed and orderly arranged protruding solid square columns, enhancing the compressive strength of the filter basket

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