

## MemKway Mega Series High Flow Filter Cartridge

MemKway Mega series pleated high flow filter cartridges are professionally engineered as cost-effective drop-in replacements for Parker Fulflo MegaFlow cartridges, providing optimized high-flow particle removal solutions for industrial clarification and pre-filtration.

Featured with 152mm (6 inch) large diameter, single open-ended structure and outside-in flow direction, it maximizes filtration area to extend service life. With a maximum flow rate of 175gpm (662lpm), it effectively cuts cartridge consumption and minimizes required housing space. Made of full polypropylene material, it boasts superior chemical compatibility and stable filtration efficiency to reduce downstream operating pressure.

Offered in pleated polypropylene and cellulose media with 0.5, 1, 5 and 10 micron ratings, it is widely applicable for raw water, cooling water, RO pre-filtration, oilfield and diverse industrial filtration fields. Fully interchangeable, high-performance and budget-friendly.

### *Features and Benefits*

- **1:1 Compatibility:** Guaranteed to fit perfectly into existing high-flow filter housings without any modifications.
- **High Flow Capacity Design:** The optimized pleated structure, high surface area and high flow capacity extend service life, reduce change-outs and maintain stable filtration.
- **Cost-Efficient Excellence:** The replacement filter achieves the same (or better) filtration efficiency as the original ones while reducing your overall operational and maintenance costs.
- **Simplified Maintenance:** Featuring an ergonomic handle design, MemKway equivalent allows for rapid installation and tool-free replacement, minimizing system downtime.
- **Safe for Critical Applications:** Constructed using thermally bonded polypropylene, ensuring zero fiber migration and excellent chemical compatibility across various fluids.



## ***Applications***

- ▶ Industrial Water Pre-Filtration
- ▶ Process Water & Cooling Water Clarification
- ▶ Municipal & Potable Water Treatment
- ▶ Wastewater & Industrial Effluent Management
- ▶ Oil, Gas & Petrochemical Industry Water Filtration

## ***Specifications***

### **Materials of Construction**

- Filter Media: Polypropylene microfiber /Cellulose with phenolic binder
- Support/Drainage: Polypropylene
- End caps: Glass filled polypropylene
- O-ring: Buna-N Standard / Silicone, EPDM and Viton Optional

### **Filtration Ratings (Nominal)**

0.5 μm, 1 μm, 5 μm, 10 μm

### **Dimensions**

- Length: Available in 40" /1016 mm and 60" / 1524 mm
- Outer Diameter: 6"/152 mm
- Internal Diameter: 3.5"/89 mm

### **Surface Area**

5.6 m<sup>2</sup> /60.3 ft<sup>2</sup> for 40" length

8.4 m<sup>2</sup> /90.4 ft<sup>2</sup> for 60" length

## ***Operating Conditions***

Maximum Operating Temperature	200° F (93°C)
Maximum Differential Pressure	150 psid @68°F (10 bar @20°C)
Recommended Change-out Differential Pressure	35 psid @68°F (2.4 bar @20°C)
Maximum Water Flow Rate	175 gpm (662 lpm) – 40" 262 gpm (993 lpm) – 60"

### Clean Pressure Drop On Flow Rate

Nominal Rating ( $\mu\text{m}$ )	Filter Media	Removal Rating Efficiency ( $\mu\text{m}$ )					Flow Factor* psid /gpm
		90%	95%	98%	99%	99.90%	
0.5	Polypropylene	0.5	1	2	5	10	0.002
1		1	3	7	10	30	0.0006
5		5	10	20	30	50	0.0003
10		10	30	50	60	90	0.0002
0.5	Cellulose	0.5	1	2	3	10	0.001
1		1	2	3	5	20	0.0001
5		5	8	10	15	85	0.00009
10		10	12	15	30	100	0.00004

\*Flow factor based on 40-inch filter cartridge length.

### Ordering Information

Code	Media Material	Micron Rating	Length	O-ring Material
MK-MCN	P	005	60	N
MemKway equivalent code	P=Polypropylene C=Cellulose	005=0.5 $\mu\text{m}$ 010=1 $\mu\text{m}$ 050=5 $\mu\text{m}$ 100=10 $\mu\text{m}$	60=60" 40=40"	E=EPDM N=Buna-N S=Silicone V=Viton

## MemKway Max Series High Flow Filter Cartridge

MemKway Max series pleated high flow filter cartridges are professionally engineered as cost-effective drop-in replacements for Parker Fulflo MaxGuard cartridges, providing optimized high-flow particle removal solutions for industrial clarification and pre-filtration.

Featured with 152mm (6 inch) large diameter, single open-ended structure and outside-in flow direction, it maximizes filtration area to extend service life. With a maximum flow rate of 90 gpm (340 LPM), it effectively cuts cartridge consumption and minimizes required housing space. Made of full polypropylene material, it boasts superior chemical compatibility and stable filtration efficiency to reduce downstream operating pressure.

These filter cartridges are offered in pleated polypropylene and cellulose media. All units adopt industry standard 226 positive O-ring seal for reliable tight connection and leak-free operation, which are widely applicable for raw water, cooling water, RO pre-filtration, oilfield and diverse industrial filtration fields. Fully interchangeable, high-performance and budget-friendly.

### *Features and Benefits*

- **1:1 Compatibility:** Guaranteed to fit perfectly into existing high-flow filter housings without any modifications.
- **High Flow Capacity Design:** The optimized pleated structure, high surface area and high flow capacity extend service life, reduce change-outs and maintain stable filtration.
- **Cost-Efficient Excellence:** The replacement filter achieves the same (or better) filtration efficiency as the original ones while reducing your overall operational and maintenance costs.
- **Simplified Maintenance:** Featuring an ergonomic handle design, MemKway equivalent allows for rapid installation and tool-free replacement, minimizing system downtime.
- **Safe for Critical Applications:** Constructed using thermally bonded polypropylene, ensuring zero fiber migration and excellent chemical compatibility across various fluids.



## **Applications**

- ▶ Oilfield produced water & injection water filtration
- ▶ Industrial & municipal water treatment
- ▶ RO system pre-filtration
- ▶ Chemical process liquid filtration
- ▶ Food and beverage liquid purification

## **Specifications**

### **Materials of Construction**

- Filter Media: Polypropylene/Cellulose
- Support/Drainage: Polypropylene
- End caps: Polypropylene
- O-ring: Buna-N Standard / Silicone, EPDM and Viton Optional

### **Filtration Ratings (Absolute)**

Polypropylene Media: 0.5 µm, 2 µm, 5 µm, 10 µm, 20 µm, 40 µm, 70 µm

Cellulose Media: 2 µm, 10 µm, 15 µm, 70 µm

### **Dimensions**

- Length: Available in 30"/750 mm and 40"/1016 mm
- Outer Diameter: 6"/152 mm
- Internal Diameter: 2"/51 mm

## **Operating Conditions**

Maximum Operating Temperature	176° F (80°C)
Maximum Forward Differential Pressure	70 psid @77°F (4.8 bar @25°C) 30 psid @176°F (2.1 bar @80°C)
Recommended Change-out Differential Pressure	35 psid @68°F (2.4 bar @20°C)
Maximum Water Flow Rate	90 gpm (340 lpm) per 40" element

### Clean Pressure Drop On Flow Rate

Absolute Rating (µm)	Filter Media	Removal Rating Efficiency (µm)				Flow Factor psid /gpm
		99.90%	99%	98%	95%	
0.5	Polypropylene	0.4	0.2	<0.2	<0.1	0.01086
2		1.4	0.4	0.2	<0.1	0.00950
5		3.8	1.2	0.3	<0.1	0.00619
10		7	3	0.9	<0.2	0.00218
20		18	5	2	<0.2	0.00051
40		23	18	8	<0.7	0.00023
70		50	30	20	10	0.00011
2	Cellulose	1.6	0.4	0.2	<0.1	0.00170
10		6	1.4	0.5	<0.2	0.00110
15		11	3	1.5	<0.6	0.00012
70		53	8.5	3	<0.5	0.00007

### Ordering Information

Code	Media Material	Absolute Micron Rating	Length	O-ring Material
MK-MXG	P	005	40	N
MemKway equivalent code	P=Polypropylene C=Cellulose	005=0.5 µm 020=2 µm 050=5 µm 100=10 µm 200=20 µm 400=40 µm 700=70 µm	30=30" 40=40"	E=EPDM N=Buna-N S=Silicone V=Viton