

MemKway 740B Series High Flow Filter Cartridge

MemKway 740B series high flow pleated filter cartridges are ideal direct replacements for 3M CUNO 740 series filters. Made of high-quality polypropylene microfiber with professional radial pleating design, this 6.5 inch large outer diameter filter adopts outside-to-inside flow structure, matching standard 226 O-ring connection for easy installation.

It features large filtration area, high flow rate and great dirt holding capacity, effectively reducing filter quantity and operation cost. With micron grades ranging from 1 μ m to 70 μ m filtration precision and 99.9% particle removal efficiency, full PP material ensures excellent chemical resistance.

Double O-ring sealing avoids liquid leakage, maintaining stable filtration performance. Suitable for pre-filtration, cooling water, seawater desalination RO system, oilfield and various industrial liquid filtration, offering cost-effective and reliable alternative filtration solutions.

Features and Benefits

- **1:1 Compatibility:** Guaranteed to fit perfectly into existing high-flow filter housings without any modifications.
- **High Dirt-Holding Capacity:** Optimized radial pleating maximizes filtration area, strong pollutant retention capacity extends service life.
- **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 integrated handle design, MemKway equivalents allow for rapid installation and mechanical removal, minimizing system downtime.
- **Safe for Critical Applications:** Constructed using thermally bonded polypropylene, ensuring zero fiber migration and broad chemical compatibility across various fluids.



Applications

- Large-Scale Source Water Filtration
- Process & Cooling Water Filtration
- Industrial & Chemical Processing Water Filtration
- Food & Beverage Pre-filtration

- Oil, Gas, & Petrochemical Industry Water Filtration
- Power Generation Industry Water Filtration

Specifications

Materials of Construction

- Filter Media: Polypropylene
- Support/Drainage: Polypropylene
- End caps: Glass fiber reinforced polypropylene
- 226 O-ring: Buna N (standard), optional EPDM, Silicone and Viton

Filtration Ratings (Absolute)

1 µm ,2 µm, 5 µm, 10 µm, 15 µm, 25 µm, 40 µm, 70 µm

Particle Removal Efficiency:

Efficiency	Removal Rating							
	1 µm	2 µm	5 µm	10 µm	15 µm	25 µm	40 µm	70 µm
99%	1	2	5	10	15	25	40	70
95%	0.9	1.1	2.5	8	9	13	24	43
90%	0.8	0.9	1.7	6	8	10	19	35
75%	<0.7	0.7	1.5	3.5	6	8	13	24
50%	<0.7	<0.7	1.1	1.5	4	4.5	8	14

Dimensions (Nominal)

- Length: Available in 30"/762 mm, 40"/1016 mm
- Outer Diameter: 6.5"/165 mm
- Internal Diameter: 1.6"/40 mm
- O- ring: ID 50 mm, thickness 3.5 mm

Operating Conditions

Maximum Operating Temperature	160° F (71°C)
Maximum Forward Differential Pressure	50 psid @68°F (3.4 bar @20°C)
Recommended Change-out Differential Pressure	35 psid @68°F (2.4 bar @20°C)
Recommend Water Flow Rate	40 gpm (9 m ³ /h)
Maximum Water Flow Rate	60 gpm (14 m ³ /h)– (1 µm & 2 µm versions)
	80 gpm (18 m ³ /h)– (all other versions)

Clean Pressure Drop On Flow Rate (Water @ 20°C)

Removal rating (μm)	Element pressure drop (mbar/m3/h)		Element pressure drop (psi/100 gpm)	
	40"	60"	40"	60"
1	8.35	5.57	2.76	1.84
2	6.07	4.05	2	1.33
5	3.04	2.02	1	0.67
10	2.28	1.52	0.75	0.5
15	1.52	1.01	0.5	0.33
25	1.52	1.01	0.5	0.33
40	1.21	0.81	0.4	0.27
70	0.99	0.66	0.33	0.22

Ordering Information

Code	Nominal Length	Media Material	Micron Rating	O-ring Material
MK-740B	40	PP	005	N
MemKway equivalent code	30=30" 40=40"	PP=Polypropylene	001=1 μm 002=2 μm 005=5 μm 010=10 μm 015=15 μm 025=25 μm 040=40 μm 070=70 μm	S=Silicone E=EPDM N=Buna-N V=Viton