ABSOLUTED RATED POLYPROPYLENE PLEATED MEMBRANE FILTER CARTRIDGE

KAREI



DESCRIPTIONS

APM is constructed of FDA CFR Title 21 listed pure Polypropylene material that provides reliable and consistent performance.

Polypropylene is a pure hydrocarbon material, there is no disposal issue relating to halogen content and makes APM an environmental friendly product.

Due to its high symmetrical pore structure, **APM** offers superior flow rates and higher throughputs with low pressure drop and high contaminant holding capacities.

APM is best suit for using in gas filtration, chemical processing, photo-resist production, automotive industry, pharmaceutical, micro-electronic, food and beverages, etc. due to its hydrophobic membrane properties.

100% Pure Polypropylene ensures wide range of chemical compatibility and suitable for filtration of wide range of solvents and liquids.

APM is designed to provide longer service life and can be used for final filtration when absolute particle removal is necessary or pre-filtration where extremely fine particle removal is needed to protect the final filtration system.

Superior particles retention capacity.

Inherently hydrophobic.

High flow rates and superior throughputs for more filter value.

100% pure Polypropylene provides good chemicals compatibility.

Available in 0.1 and 0.2 micron absolute pore sizes.

All parts and supporting layer are thermally welded without any binder to ensure extremely low extractable.

Manufactured in Class 10K clean room environment.

APM Series

100% integrity tested to ensure product reliability.

Wide range of end configurations to fit any standard housing.

A guaranteed high quality product (ISO 9001 Certified).

SPECIFICATIONS

ABSOLUTE MICRON RATING

0.1 and 0.2 micron

NOMINAL LENGTH

125, 250, 500, 750, 1000 mm or 127, 254, 508, 762, 1016 mm

NOMINAL INNER/OUTER DIAMETER (ID/OD)

Standard : 28/ 68 mm or BB : 28/ 114 mm Note: 30mm inner diameter is available upon request.

MEDIA MATERIAL

Hydrophobic Polypropylene Membrane

SUPPORTING MATERIAL

Non Woven Polypropylene Micro-Denier Fibers

INNER CORE, CAGE AND END ADAPTOR MATERIAL

Standard	: High Strength Pure Polypropylene
RPG	: Reinforced Polypropylene With Glass
HPE	: High Density Polyethylene

RECOMMENDED INTEGRITY TEST

Minimum Bubb	ole Point
0.1 micron	: > 1.5 Bar (21 PSI) in IPA
0.2 micron	: > 0.5 Bar (7 PSI) in IPA

SEALING TECHNIQUE

Thermal Bonding

FILTRATION AREA

>0.65m²/10" Filter Cartridge

END STYLE

I) DOE	: Double Opened End		
2) SOE	: Single Opened End		
i) S2C	: SOE, 222 O-Ring With Closed End		
ii) S2F	: SOE, 222 O-Ring With Finned End		
iii) S6C	: SOE, 226 O-Ring With Closed End		
iv) S6F	: SOE, 226 O-Ring With Finned End		
Note: Extende	ed adaptor for SOE filter cartridge is		
available upon request.			

GASKET AND O-RING MATERIAL

1) Standard	: EPDM	2) V	: Viton
3) S	: Silicone	4) T	: Teflon
5) FEP	: Teflon Enco	psulated	Viton

OPERATING CONDITIONS

MAX. FORWARD DIFFERENTIAL PRESSURE 4.1 Bar (60 PSI) at 25°C

MAX. **REVERSE DIFFERENTIAL PRESSURE** 2.8 Bar (40 PSI) at 25°C

MAX. OPERATING TEMPERATURE 90°C at 0.7 Bar (10 PSI)

CHANGE OUT DIFFERENTIAL PRESSURE 2.4 Bar (35 PSID)

	TYPICAL APPLICATIONS	
Process Gases	Filtration of compressed air, General and point-of use gases etc.	
Food And Beverages	Sterile vents for holding tanks, Sterile CO ₂ filtration, Microbial control of inlet air, etc.	
Pharmaceutical	Air and tank vents, Compressed air, Re-crystallization chemicals, Chemical extraction, Ophthalmic, Oral Medications, Small & Large volume parenterals.	
Chemical & Petrochemical	Polymers, Glycols, Photo-resists, Deep disposal well fluids, Mono-ethanol-amine and Di-ethanol-amine for gas scrubbing, Acids, Bases, Polishing products, Inks, Paints, Electroplating solution, Can, Coil, Tape, Disc, Fabric & Paper coating, Metal etching solution, Liquid detergents, Dyestuffs, etc.	
Power Generation Industries	ies Steam generator blow-down pre-filter, Waste water, Make-up water.	
Fermentation Bio-processing	Additives, Exhaust gas filtration, Liquid growth media, Intermediates, Downstream processing, Pre & Final liquid filtration, etc.	

IPA FLOW RATE (10 INCHES CARTRIDGE)-APM

AIR PRESSURE DROP (10 INCHES CARTRIDGE)-APM



Air Temperature: 24 °C, Inlet Pressure: 15 PSID (1 Bar)

ORDERING GUIDE

KAREI – APM – (A) – (B) – (C) – (D) – (E) – (F)

(A)	(B)	(c)	(D)	(E)	(F)
MICRON	LENGTH	END STYLE	GASKET/ O-RING MATERIAL	PARTS MATERIAL	TYPE
01 : 0.1 02 : 0.2	125, 250, 500, 750, 1000 mm 127, 254, 508, 762, 1016 mm	None : DOE S2C : 222 & Closed End S2F : 222 & Finned End S6C : 226 & Closed End S6F : 226 & Finned End NOTE : For SOE with extended adaptor, please include the code of 'EX'	None : EPDM V : Viton S : Silicone T : Teflon FEP : Teflon Encapsulated Viton	None : PP RPG : Reinforced PP With Glass HPE : High Density PE	None: Standard BB: 28/114mm

EXAMPLE:

1) KAREI-APM-01-250-DOE (APM, 0.1 um, 250mm, DOE, EPDM Gasket, PP Parts Material)

2) KAREI-APM-01-250-S2C-EX-V-RPG (APM, 0.1 um, 250mm, SOE, 222 Viton O-Ring With Extended Adaptor, Closed End, Reinforced PP With Glass Parts Material)

Note: We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the applications. Users are advised to make their own testing under actual condition to determine the safety and suitability of each product or product combination for their own purposes and applications. Buyers and users assume all responsibility for liability performance or damage. We reserve the entire right to modify the information without prior notice due to continuous R & D.