



## SPECIFICATIONS

### MICRON RATING

0.2, 0.45, 1, 3, 5, 10, 25 & 50 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

Borosilicate Micro Fiberglass with Acrylic Binder  
FGP-50 : Spun bonded Polyester

### SUPPORTING MATERIAL

Spun bonded Polyester

### INNER CORE, CAGE AND END ADAPTOR MATERIAL

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

### SEALING TECHNIQUE

Thermal Bonding

### FILTRATION AREA

>0.64m<sup>2</sup>/ 10" Filter Cartridge

### END STYLE

- 1) 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: Extended 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 Encapsulated Viton

## OPERATING CONDITIONS

### MAX. FORWARD DIFFERENTIAL PRESSURE

5.1 Bar (75 PSID) at 20°C

### MAX. REVERSE DIFFERENTIAL PRESSURE

5.1 Bar (75 PSID) at 20°C

### MAX. OPERATING TEMPERATURE

80°C at 2.1 Bar (30 PSI)

### CHANGE OUT DIFFERENTIAL PRESSURE

2.4 Bar (35 PSID)

## DESCRIPTIONS

**FGP** is designed to provide efficient particles removal in both liquids and gases system.

**FGP** can be used as a pre-filter to protect final filtration or application where high dirt holding capacity and efficient filtration are required.

Available in 8 micro ratings to suit various filtrations needs with effective filtration area of more than 0.64m<sup>2</sup>.

**FGP** offers superior filtration performance which provides low pressure drop and long life span.

More economical than conventional depth type filter cartridges.

Excellent chemical compatibility for various applications.

All hardware materials are made of FDA CFR Title 21 listed Silicone-Free Non Foaming pure Polypropylene material suitable for food and beverages contact and wide range of process fluid applications.

Wide range of end configurations to fit any standard housing.

Manufacture in Class 10K clean room environment to ensure cleanliness.

Stringent manufacturing process and thermally bond technique without the use of adhesive and surfactant to ensure lowest amount of extractable.

A guaranteed high quality product (ISO 9001 certified).

# TYPICAL APPLICATIONS

<b>Cosmetics</b>	Toiletries, Perfumes and colognes, Lotions, Ointments, Shampoos, Body Rinses, Mouthwashes, Toothpaste, Creams, After shaves, etc.
<b>Food And Beverages</b>	Wine, Corn syrup, Edible oils, Bottled water, Beer, Soft drinks, Distilled spirits, Storage tanks & air vent, etc.
<b>Hard Disc And Electronic</b>	Photo-resists, Pre & post-filtration for RO & DI water system, Gases filtration, Acids, Bases, Etchants, Coolants, Solvents, etc.
<b>Veterinary</b>	Parenterals, Therapeutic Area, etc.
<b>Biological</b>	Vaccine preparation, Serum & serum fraction, Tissue culture media, Media make-up water, Diagnostic area, Microbiological growth area, etc.
<b>Film And Fiber</b>	Monomers, Slurry additives, Delusterants, Slip agents, Spin finishes, Aqueous salt solution, Quench water, etc.
<b>Pharmaceutical</b>	Ophthalmic, Oral medications, Small & large volume parenterals, Oral and topical medicines, etc.
<b>Chemical &amp; Petrochemical</b>	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.
<b>Power Generation Industries</b>	Steam generator blow-down pre-filter, Waste water, Make-up water.
<b>Fermentation Bio-processing</b>	Additives, Exhaust gas filtration, Liquid growth media, Intermediates, Downstream processing, Pre & Final liquid filtration, etc.
<b>General</b>	Pre-filtration for RO and DI system, Pre and final water demineralization, Pesticides & Herbicides, Catalysts, Rinse water, etc.

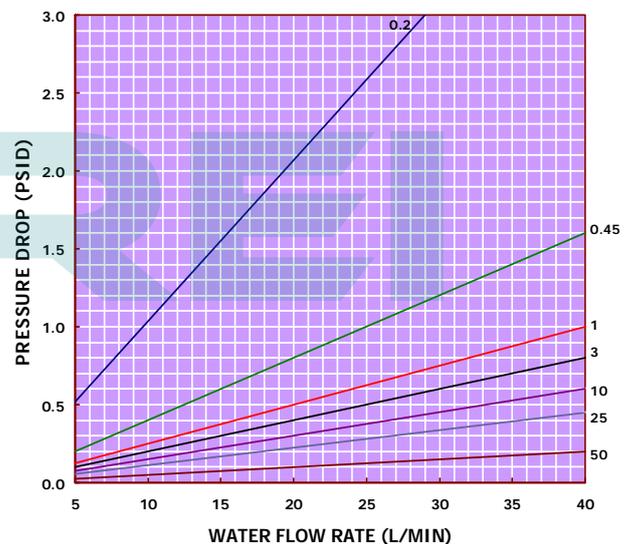
## REMOVAL RATING

MICRON	LIQUID SERVICES		GAS SERVICES (0.3 um DOP RETENTION)
	$\beta=10$ (90.0%)	$\beta=5,000$ (99.98%)	
0.2	0.2	1	> 99.999%
0.45	0.45	2	> 99.998%
1.0	1	4	> 98.0%
3.0	3	10	> 70.0%
5.0	5	16	> 60.0%
10.0	10	18	-
25.0	25	40	-
50	50	75	-

The removal efficiency of liquid services was obtained using specific testing ISO standard dusts.

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

WATER PRESSURE DROP (10 INCHES CARTRIDGE)-FGP



## ORDERING GUIDE

KAREI - FGP - { A } - { B } - { C } - { D } - { E } - { F }

{ A }	{ B }	{ C }	{ D }	{ E }	{ F }
MICRON	LENGTH	END STYLE	GASKET/ O-RING MATERIAL	PARTS MATERIAL	TYPE
02 : 0.2	125, 250,	None : DOE	None : EPDM	None : PP	None:
04 : 0.45	500, 750,	S2C : 222 & Closed End	V : Viton		Standard
1 : 1	1000 mm	S2F : 222 & Finned End	S : Silicone	RPG :	
3 : 3		S6C : 226 & Closed End	T : Teflon	Reinforced PP With Glass	BB:
5 : 5	127, 254,	S6F : 226 & Finned End	FEP :		28/114mm
10 : 10	508, 762,		Teflon Encapsulated Viton	HPE :	
25 : 25	1016 mm	NOTE : For SOE with extended adaptor, please include the code of 'EX'		High Density PE	
50 : 50					

### EXAMPLE:

- 1) KAREI-FGP-04-250-DOE (FGP, 0.45 um, 250mm, DOE, EPDM Gasket, PP Parts Material)
- 2) KAREI-FGP-04-250-S2F-EX-T-RPG (FGP, 0.45 um, 250mm, SOE, 222 Teflon O-Ring With Extended Adaptor, Finned 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.