

Filtration & Separation

Filtration is Essential
to all the application,
As oxygen is essential to life

Filtration is Essential to all the application, As oxygen is essential to life

The 21st century is called as the Era of creating the Second Environment where people can enjoy pleasant and abundant life through the endless development of environment human technology.

Owing to numerous by-products made by enterprises pursuing high growth, an era threatening the existence of human beings has come.

Advanced countries are concentrating their technologies on materializing pure water and environment in a bid to improve the degree of cleanness of the F & B industry and achieve high-density accumulation of electronic and communication equipment.

Since its establishment in 2001, ePore has led the domestic industry in the manufacture of appraisal machines of water treatment filters based on its top-level technology and productive power. And soon after the company's establishment, ePore quickly developed the reliable testing system for micro-cartridge filter. Also In 2005, we hold a patents "Equipment to appraise efficiency of cartridge filter for clean water (Patent No. 0470928)"

In particular, the appraisal system of water treatment filters was selected as an appraisal machine to evaluate confidence by Korea Institute of Industrial Technology (KITECH).

As a results of endless effort, ePore has successfully developed a High Performance cartridge filter which has High Dirt Holding capacity and flow rates simultaneously. ePore's IXTUS filter is currently receiving competitive filter around the World, including Asia and Europe.

Along with the development of the coreless complex-type filters for F & B and Electronic materials use, ePore plans to localize High-Functional filter with high value added and improve environment for users.

We will pursue a strategy differentiated from that of large enterprises and make intensive investment in a certain sector, while staging prompt and bold marketing and sales promotion activities through B2B networks.

"Those who think a small thing as a large one and do their best" gathered at ePore. With such a young venture spirit, ePore will grow to an enterprise doing it's best for a small thing.

CEO





Company History

- 2001. 12. Established Vertexpore Co., Ltd.
- 2002. 02. Patent registration (Equipment to appraise efficiency of cartridge filter for clean water)
- 2002. 08. Changed the company's name to ePore. Moved in the Starting-Up Incubator at Hanyang University, Seoul, Korea.
- 2004. 12. Moved to the Venture building of Sungnam-Si Industrial Foundation
- 2005. 03. Venture company certificate by Korea Government
- 2005. 12. ISO 9001 authentication certificate
- 2006. 06. Components & Materials Specialized company certificate by Ministry of Trade, Industry and Energy, Korea Government
- 2006. 06. Innobiz:(Innovation & business) company certificate by Small and Medium Business Administration, Korea Government
- 2007. 06. An export-incubating small and medium company designate by Small and Medium Business Administration, Korea Government
- 2007. 10. R & D center established
- 2008. 05. Patent registration (Method of manufacturing Filter Cartridge)
- 2009. 12. Moved to the Office and Factory, in Namyangju-Si



Bi-combo Filter

DESCRIPTION

Coreless Depth Cartridge Filter

It has the used 100% PP/PE Bi-component fibers to create 3-Dimensional Skeleton Structures.

It is the High Functional filter that maximizes the High Water Flow Rate and Removal Efficiency of the processed water and chemical solution.

It also maximizes the combining power of each non-woven layers.

It is the Heat-combination Chemical Free filter.

The materials are on the FDA listed as acceptable things to be Portable and Edible.

And it keeps a High-level cleanness.



Applications

- Pharmaceutical & Hospital applications
- Water Treatment
- Food & Beverage
- Electronics & Semi-conductor
- Solvent, Paint, Ink & Resins
- And High-viscosity liquid filtration

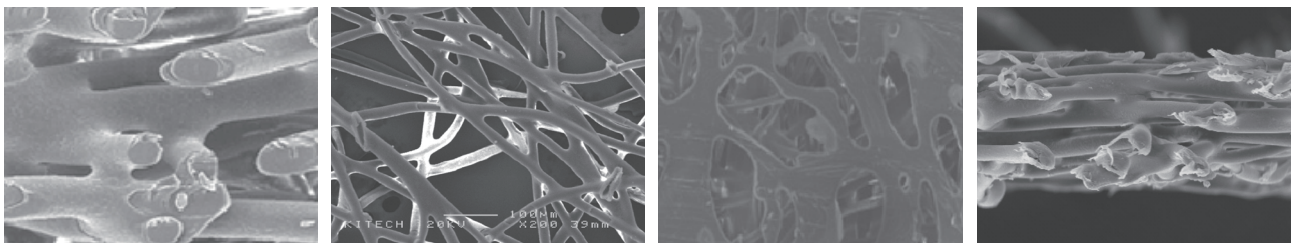
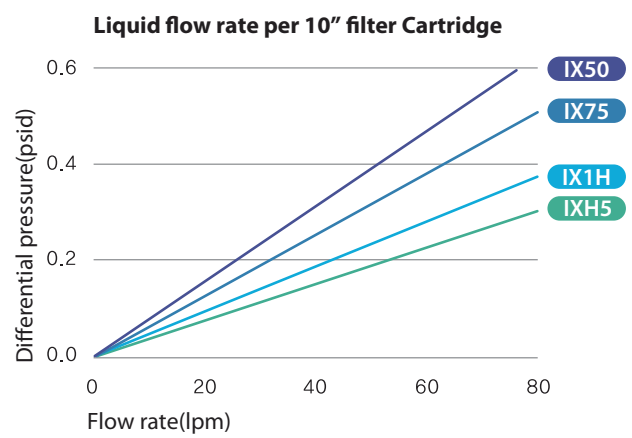
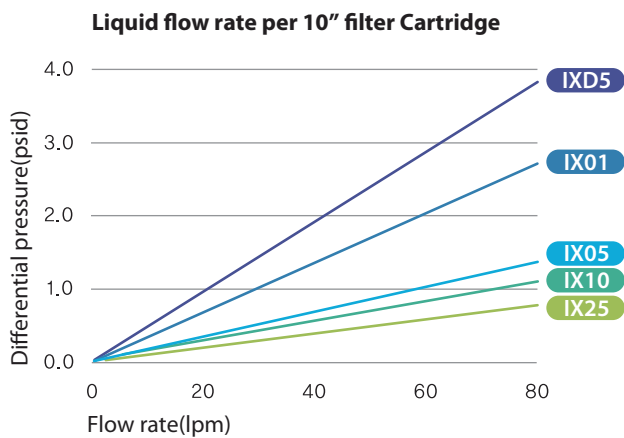
Air Flow Specification

Grade (µm)	Air Flow (lpm)	Grade (µm)	Air Flow (lpm)
0.5	1,540	25	2,437
01	1,810	50	2,457
05	2,050	75	2,547
10	2,150	100	2,647

(Air Flow at 100 kPa)

Features	Advantages	Benefits
<ul style="list-style-type: none"> • 100% PP/PE & 3-Dimensional Skeleton Structures 	<ul style="list-style-type: none"> • A Long Life cycle & High Flow rate Skeleton structures • The Enhanced porosity in the cartridge filter 	<ul style="list-style-type: none"> • Ease to see the High Flow rate and Efficiency in your process, simultaneously
<ul style="list-style-type: none"> • High Functional filter 	<ul style="list-style-type: none"> • The High durability at the high differential pressure 	<ul style="list-style-type: none"> • Suitableness for food & beverage, and the other regulated applications
<ul style="list-style-type: none"> • Depth filtration 	<ul style="list-style-type: none"> • The Linear Flow path and very stable Pore size 	<ul style="list-style-type: none"> • Keeping a High level cleanness, too

Flow Specification



Performance Specification

Material of Construction	Recommended Operating Conditions	Removal Ratings						Cartridge Dimensions				
		Grade	Rating(μm)		Grade	Rating(μm)						
Media : Polypropylene/ Polyethylene Bi-component fiber Structure : Coreless cartridge	Maximum Differential Pressure : 70psi(4.8bar) (at 25°C) Maximum Temperature : (at 80°C)	D5	Absolute	6	Nominal	0.5	25	Absolute	60	Nominal	25	In diameter : 30mm Out diameter : 62~65mm Length(mm) : 250, 500, 750, 1000
		01		13		1	50		95		50	
		05		25		5	75		110		75	
		10		35		10	1H		150		100	
							H5		200		150	

Ordering Information

For example : If You want to Purchase IXD5A1E, You CAN Choose relevant items, At the each of DATA Articles.

Brand	Removal Ratings Grade						End Cap Options	Length	O-ring Material
	Grade	Rating(μm)		Grade	Rating(μm)				
		Absolute	Nominal		Absolute	Nominal			
IX : IXTUS	D5	6	0.5	25	60	25	A : 250mm D/O B : 254mm D/O C : 222 O-ring/Flat end D : 226 O-ring/Flat end E : 222 O-ring/Fin. end F : 226 O-ring/Fin. end	1 : 10" 2 : 20" 3 : 30" 4 : 40"	E : EPDM N : Buna-N S : Silicone V : Viton T : Teflon Encapsulated Viton
	01	13	1	50	95	50			
	05	25	5	75	110	75			
	10	35	10	1H	150	100			
				H5	200	150			

* Please inquire concerning any non-standard size.

Absolute Depth Cartridge Filter

DESCRIPTION

Absolute-Rated Depth Filter

These Filters are the High Efficiency cartridge filter that has the Excellent compatibility with most range of chemical solutions.

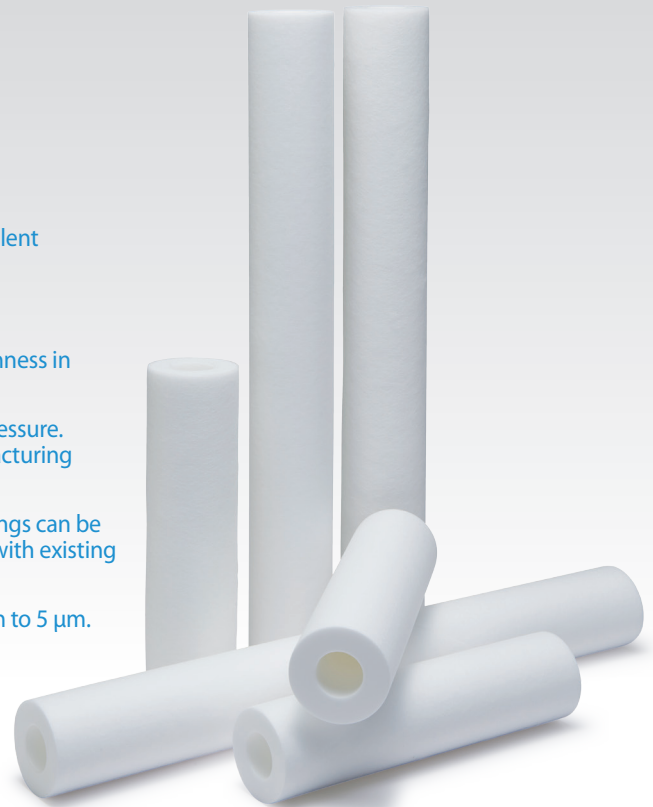
It has the Enhanced particle removal in the aqueous fluids. So It has the low extractables and media migration. Because of the Nano-Fiber construction, it has the High quality cleanness in process line, the consistent production yields and quality.

There is any Fibers' Non-Releasing during variations in the flow or pressure. It means that the Fibers are continuous and fixed during the manufacturing process. Furthermore, it has the High Dirt Holding capacity, too.

Based on the widely accepted and modified Filtration Test, those things can be expected to yield longer life and higher flow rates when compared with existing products of similar physical appearance.

It has the wide choice of particulate removal efficiencies from 0.1 μm to 5 μm . Its rate is Absolute, to optimize filter ratings for each application.

The materials are on the FDA listed as acceptable things to be Portable and Edible.



High Efficiency

These Filters are the Absolute-rated Depth filters with the Polyolefine Fibers and Nano-Fibers.

It is good for the CMP (Chemical Mechanical Polishing) process. Because the Absolute grade is constructed of the fibers to ensure High efficiency at the Multi-layer.

Among them, IXA (IXTUS Bi-combo Absolute) is the Higher Functional filter that maximizes the Higher Water Flow Rate, Removal Efficiency of the processed water and chemical solution, simultaneously.

It also maximizes the combining power of each non-woven layers. Its Characteristics is the Heat-combination Chemical Free. And it keeps a High-level cleanness. It has the Linear Flow path and very stable Pore size. So it has the Enhanced porosity in the cartridge filter.

IXA is used of the Bi-combo structure, on the base of the existing IA construction. So its high level durability is suitable for the fields of the polar solvent, pigment and slurry by the 3-dimensional structure.

It has upgraded structures for the viscosity-customized.

Air Flow Specification

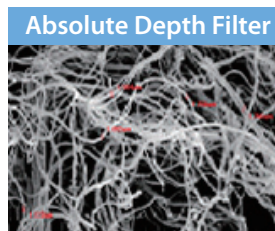
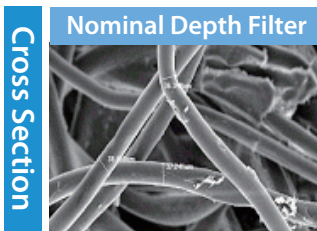
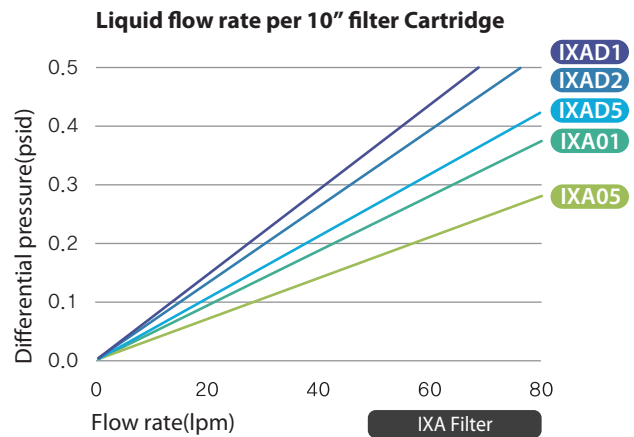
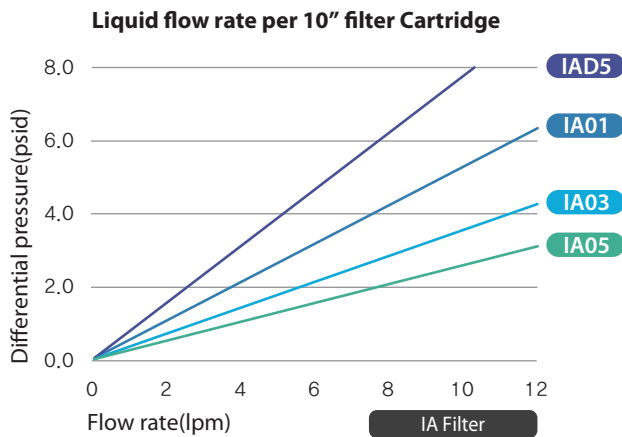
Grade (μm)	Air Flow (lpm)
0.1	
0.5	356
01	399
03	415
05	460

(Air Flow at 100 kPa)

Applications

- Oxide slurry
- Metal slurry
- And Chemical slurry
- Pharmaceutical & Hospital applications
- Water Treatment
- Food & Beverage
- Electronics & Semi-conductor
- And Solvent, Paint, Ink & Resins

Flow Specification



- Fine Denier Fiber : the Enhanced Particle removal Efficiency and Increased Dirt Holding capacity.
- Increased Effective Flow Path by the Compositd Fibers : The High flow rate and Anti-Fiber Releasing.

Performance Specification

Material of Construction	Recommended Operating Conditions	Removal Ratings		Cartridge Dimensions	Removal Efficiency
		Grade	Rating(μm)		
IA Media : Polyolefine Ultra-fine fiber Core & cage : Polyolefine And Sealing : Thermal bonding <hr/> IXA Media : Bi-component fiber & nano fiber And Sealing : Thermal bonding	Maximum Differential Pressure : 70psi(4.8bar) (at 25°C) <hr/> Maximum Differential Pressure : 70psi(4.8bar) (at 25°C) Maximum Temperature : 80°C	D1	0.1	In diameter : 30mm Out diameter : 62~65mm	Absolute grade (99.98%)
		D2	0.2		
		D5	0.5		
		1	1		
		3	3		
5	5				

Ordering Information

For example : If You want to Purchase IAD1A5EC, You CAN Choose relevant items, At the each of DATA Articles.

Brand	Type	Removal Ratings Grade		End Cap Option	Length	O-ring Material	Special Option
		Grade	Rating(μm)				
I: IXTUS	A : Absolute Depth XA : Absolute Depth	D1	0.1	A : 250mm D/O B : 254mm D/O C : 222 O-ring/Flat end D : 226 O-ring/Flat end E : 222 O-ring/Fin. end F : 226 O-ring/Fin. end	5 : 5" 1 : 10" 2 : 20" 3 : 30" 4 : 40"	E : EPDM N : Buna-N S : Silicone V : Viton T : Teflon Encapsulated Viton	C : DI cleaning S : SUS ring Insertion
		D2	0.2				
		D5	0.5				
		1	1				
		3	3				
		5	5				

* Please inquire concerning any non-standard size.

Filter
 Absolute Depth Cartridge Filter
 High Flow
 High Flow
 High Flow
 Melt-blow
 String Wound
 Pleat
 Pleated Mem
 IJumbo
 Ring & Flange
 Bag Filter
 High Stable
 Chemical

High Flow Depth Filter I (Grooved IG Filter)

DESCRIPTION

Grooved High Flow Depth Cartridge Filters are constructed of the PP/PE Bi-component fibers.

Grooved IG Filter has the High Dirt Holding Capacity and Flow Rates.

It is a Heat-combination Chemical Free Filter.

Also available in a wide selection of micron ratings from 1 μ m to 100 μ m.

The materials are on the FDA listed as acceptable things to be Portable and Edible.

Applications

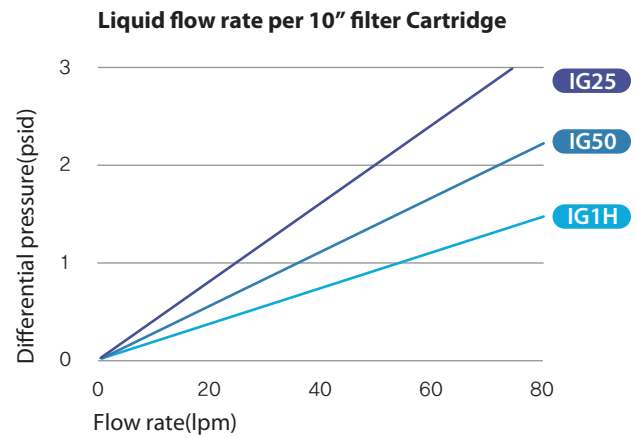
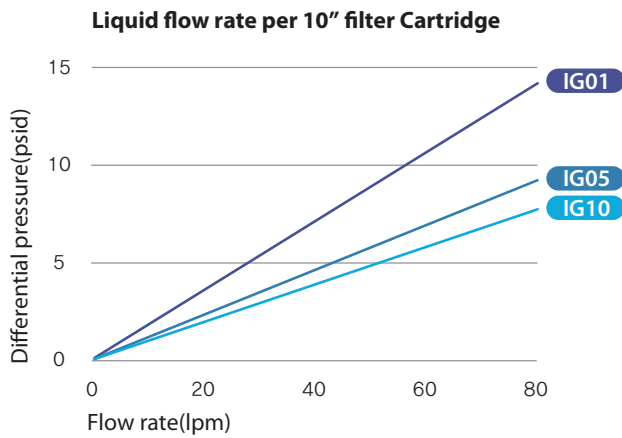
- Water Treatment
- Food & Beverage
- Electronics & Semi-conductor
- Solvent, Paint, Ink & Resins
- And High-viscosity liquid filtration

Features and Benefits

- Grooved IG Filter with the extended surface area.
- A Longer-Life cycle more than normal depth filters.
- The Wide Chemical Compatibility, too.
- The Lower filtration costs per years.
- The consistent production yields and quality.
- The High Dirt Holding capacity for the long life and Lower filtration costs.



Flow Specification



Performance Specification

Material of Construction	Recommended Operating Conditions	Removal Ratings				Cartridge Dimensions
Media : Polypropylene/ Polyethylene Bi-component Fiber Structure : Coreless cartridge	Maximum Differential Pressure : 70psi(4.8bar) (at 25°C) Maximum Temperature : (at 80°C)	IG Grooved Depth Filter				In diameter : 30mm Out diameter : 60~63mm Length(mm) : 250, 500, 750, 1000
		Grade	Rating(μm)	Grade	Rating(μm)	
		01	1	50	50	
		05	5	1H	100	
		10	10			
25	25					

Ordering Information

For example : If You want to Purchase IG01A1E, You CAN Choose relevant items, At the each of DATA Articles.

Brand	Type	Removal Ratings Grade				End Cap Option	Length	O-ring Material
I: IXTUS	G: High Capacity Depth (Grooved)	IG Grooved Depth Filter				A : 250mm D/O B : 254mm D/O C : 222 O-ring/Flat end D : 226 O-ring/Flat end E : 222 O-ring/Fin. end F : 226 O-ring/Fin. end	1 : 10" 2 : 20" 3 : 30" 4 : 40"	E : EPDM N : Buna-N S : Silicone V : Viton T : Teflon Encapsulated Viton
		Grade	Rating(μm)	Grade	Rating(μm)			
		01	1	50	50			
		05	5	1H	100			
		10	10					
25	25							

* Please inquire concerning any non-standard size.

High Flow Depth Filter II (Non-Grooved IN Filter)

DESCRIPTION

Non-Grooved High Flow Depth Cartridge Filters are constructed of the PP/PE Bi-component fibers.

It has the used 100% PP/PE Bi-component fibers to create 3-Dimensional Skeleton Structures.

It is the High Functional filter that maximizes the High Water Flow Rate and Removal Efficiency of the processed water and chemical solution.

It also maximizes the combining power of each non-woven layers.

It is the Heat-combination Chemical Free filter.

And it keeps a High-level cleanness.

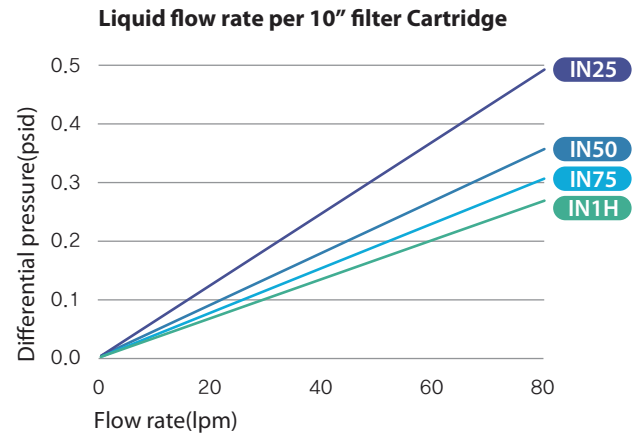
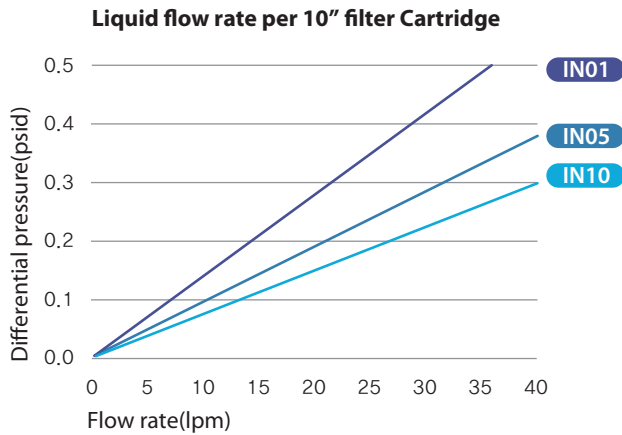
The materials are on the FDA listed as acceptable things to be Portable and Edible.

Applications

- Pharmaceutical & Hospital applications
- Water Treatment
- Food & Beverage
- Electronics & Semi-conductor



Flow Specification



Performance Specification

Material of Construction	Recommended Operating Conditions	Removal Ratings						Cartridge Dimensions	
		Grade		Rating(μm)		Grade			Rating(μm)
Media : Polypropylene/ Polyethylene Bi-component Fiber Structure : Coreless cartridge	Maximum Differential Pressure : 43.5psi(3.0bar) (at 25°C) Maximum Temperature : (at 70°C)			Rating(μm)				In diameter : 30mm Out diameter : 61~62mm Length(mm) : 250, 500, 750, 1000	
		Grade		Grade		Grade			
			Absolute	Nominal		Absolute	Nominal		
		01	13	1	25	60	25		
05	25	5	75	110	75				
10	35	10	1H	150	100				

Ordering Information

For example : If You want to Purchase IN01A1E, You CAN Choose relevant items, At the each of DATA Articles.

Brand	Type	Removal Ratings Grade						End Cap Option	Length	O-ring Material			
		Grade		Rating(μm)		Grade					Rating(μm)		
I: IXTUS	N: High Capacity Depth (Non-Grooved)			Rating(μm)				A : 250mm D/O B : 254mm D/O C : 222 O-ring/Flat end D : 226 O-ring/Flat end E : 222 O-ring/Fin. end F : 226 O-ring/Fin. end		1 : 10" 2 : 20" 3 : 30" 4 : 40"		E : EPDM N : Buna-N S : Silicone V : Viton T : Teflon Encapsulated Viton	
		Grade		Grade		Grade							
			Absolute	Nominal		Absolute	Nominal						
		01	13	1	50	95	50						
		05	25	5	75	110	75						
10	35	10	1H	150	100								

* Please inquire concerning any non-standard size.

Filter
Depth Filter
Depth Filter I
High Flow Depth Filter II
Melt-blow
String Wound
Pleat
Pleated Membrane
Jumbo
Ring & Flange
Bag Filter High Stable
Chemical

Melt-blown Depth Filter

DESCRIPTION

Melt-blown Depth Cartridge Filters are constructed of the pure Polypropylene fibers.

The economical & longer life cycled depth cartridge filters are constructed of the pure polypropylene fibers.

There is no deformation in the process line and it has the excellent uniformity.

We produce the filters in the melt-blown process.

It is available to have a wide selection of micron ratings from 1 μ m to 100 μ m.

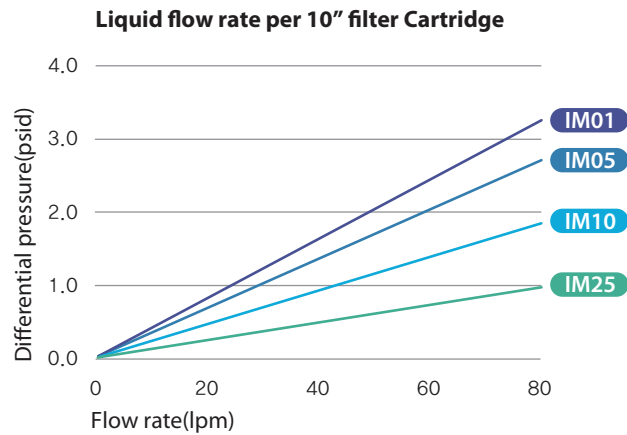
The materials are on the FDA listed as acceptable things to be Portable and Edible.

Applications

- Pharmaceutical & Hospital applications
- Water Treatment
- Food & Beverage
- Electronics & Semi-conductor



Flow Specification



Performance Specification

Material of Construction	Recommended Operating Conditions	Removal Ratings				Cartridge Dimensions
		Grade	Rating(μm)	Grade	Rating(μm)	
Media : Polypropylene Micro-fiber(100%) Structure : Coreless Cartridge	Maximum Differential Pressure : 43.5psi(3.0bar) (at 25°C) Maximum Temperature : (at 70°C)	D5	0.5	25	25	In diameter : 28/30mm Out diameter : 60, 63mm Length(mm) : 250, 500, 750, 1000
		01	1	50	50	
		03	3	75	75	
		05	5	1H	100	
		10	10			

Ordering Information

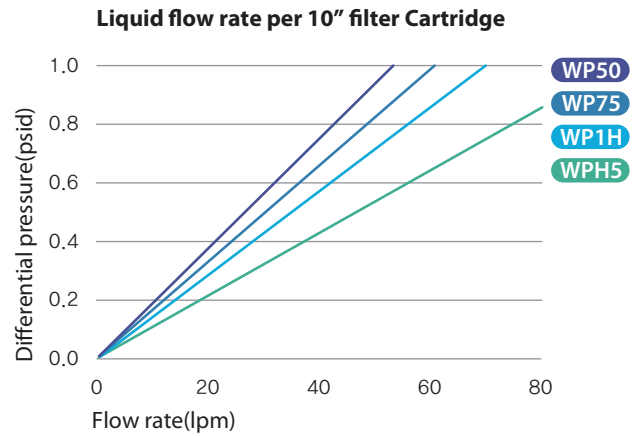
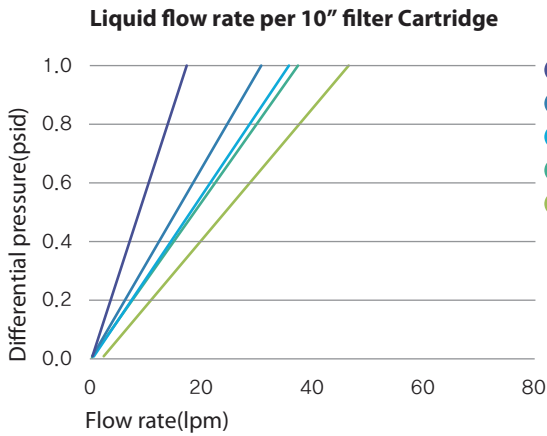
For example : If You want to Purchase IMD5A1, You CAN Choose relevant items, At the each of DATA Articles.

Brand	Type	Removal Ratings Grade				End Cap Option	Length
		Grade	Rating(μm)	Grade	Rating(μm)		
I: IXTUS	M: Melt-blown	D5	0.5	25	25	A : 250mm D/O B : 254mm D/O	1 : 10" 2 : 20" 3 : 30" 4 : 40"
		01	1	50	50		
		03	3	75	75		
		05	5	1H	100		
		10	10				

* Please inquire concerning any non-standard size.

Filter
Depth Filter
Depth Filter I
Depth Filter II
Melt-blown Depth Filter
String Wound
Pleat
Pleated Membrane
Jumbo
Ring & Flange
Bag Filter High Stable
Chemical

Flow Specification



Performance Specification

Material of Construction	Recommended Operating Conditions	Removal Ratings				Cartridge Dimensions
		Grade	Rating(μm)	Grade	Rating(μm)	
Fiber : Polypropylene /Cotton Matrix : Polypropylene /Cotton Core : Polypropylene /Tinned steel /304&316SS	Maximum Differential Pressure : 70psi(4.8bar) (at 25°C) Maximum Temperature : Cotton (at 121°C) Polypropylene (at 80°C)	D5	0.5	25	25	In diameter : 28/30mm Out diameter : 62~65mm Length(mm) : 250, 500, 750, 1000
		01	1	50	50	
		03	3	75	75	
		05	5	1H	100	
		10	10	H5	150	

Ordering Information

For example : If You want to Purchase WPPD5A1P, You CAN Choose relevant items, At the each of DATA Articles.

Brand	Type	Removal Ratings Grade				End Cap Option	Length	Core
W : Wound filter	PP : Polypropylene (high flux type) PC : Cotton (high flux type) S : Polypropylene (normal type) C : Cotton (normal type)	Grade	Rating(μm)	Grade	Rating(μm)	A : 250mm D/O B : 254mm D/O	1 : 10" 2 : 20" 3 : 30" 4 : 40"	P : PP S : 304SS N : 316SS T : Tinned Steel
		D5	0.5	25	25			
		01	1	50	50			
		03	3	75	75			
		05	5	1H	100			
10	10	H5	150					

* Please inquire concerning any non-standard size.

Filter
Depth Filter
Depth Filter I
Depth Filter II
Depth Filter
String Wound Depth Filter
Pleat
Pleated Mem
Jumbo
Ring & Flange
High Stable
Chemical

Pleated Filter

DESCRIPTION

High quality Pleated Meltblown media

IPH pleated cartridge filters offer the Superior Dirt Holding Capacity and High Removal Efficiency, compared to the conventional pleated cartridges due to their multiple layered construction.

IPP pleated cartridge filters provide the Superior Removal Efficiency, compared to the conventional pleated cartridges due to their multiple layered construction.

IPC pleated cartridge filters also provide a Long life Cycle.

The pleated cartridges are available in a wide selection of micron ratings to meet clients' filtration requirements.

All the Polypropylene components and thermal bonded manufacturing enable the customers to have the smallest contaminant extraction and the higher durability.

No any adhesive minimizes contamination from the media extraction.

The materials are on the FDA listed as acceptable things to be Portable and Edible.

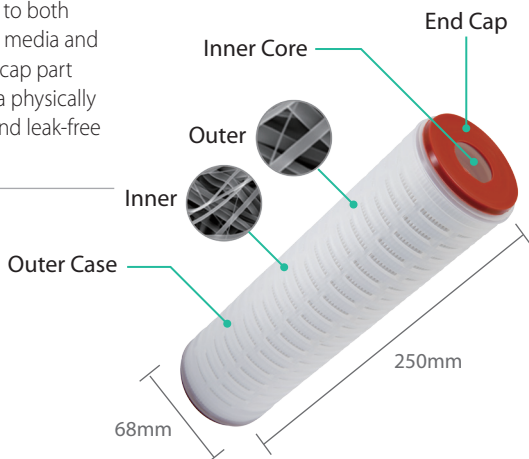


Applications

- Electronic : LCD, PDP, EL, Rinse Solution, Fine Chemical.
- Pre-filtration, DI-water, Solvents. Selected Acids & Bases, Chemicals.
- Food & Beverage

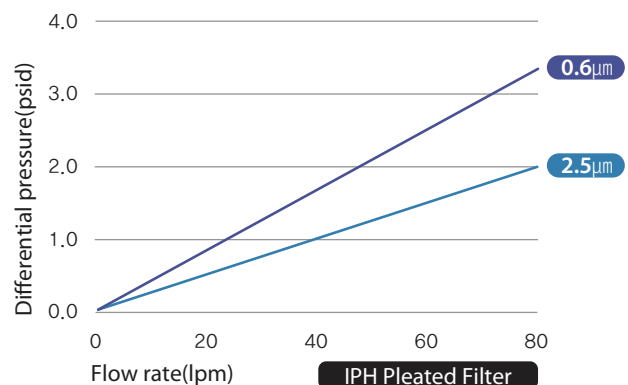
Features	Advantages	Benefits
<ul style="list-style-type: none"> • A wide selection of micron ratings 	<ul style="list-style-type: none"> • A long life cycle & a large surface area 	<ul style="list-style-type: none"> • The consistent production yields
<ul style="list-style-type: none"> • Polypropylene components(100%) & thermal bonded manufacturing 	<ul style="list-style-type: none"> • Reduced Product Waste 	<ul style="list-style-type: none"> • The consistent performance to specification, too
<ul style="list-style-type: none"> • Multiple layered construction 	<ul style="list-style-type: none"> • Reduced Cartridge change-out frequent 	<ul style="list-style-type: none"> • The Maximum Price Cutting
<ul style="list-style-type: none"> • No any adhesive minimizes contamination from media extraction 	<ul style="list-style-type: none"> • Increased Productivity & Plant capacity 	<ul style="list-style-type: none"> • Allows the Maximum fluid and contaminant access to filter surface area for the highest throughput

It bonds to both the filter media and the end cap part to form a physically strong and leak-free seal.

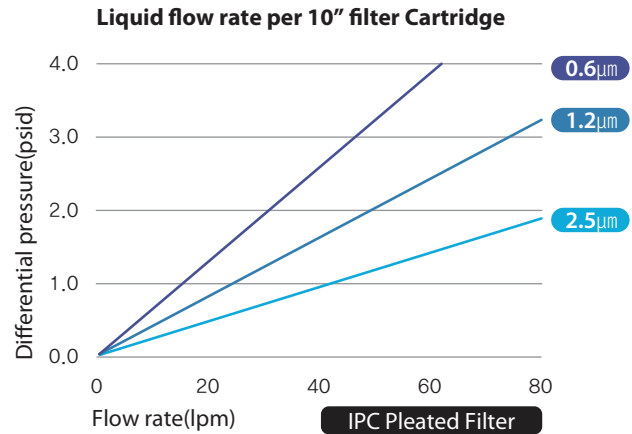
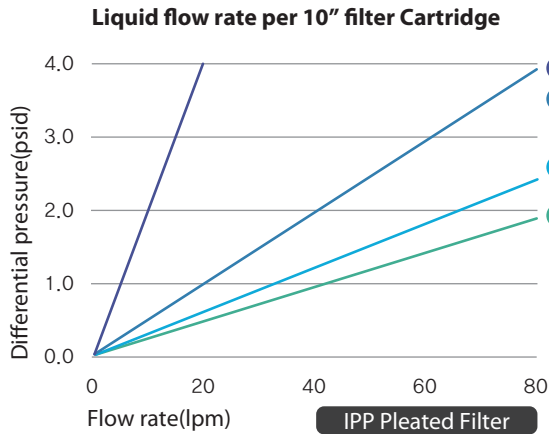


Flow Specification

Liquid flow rate per 10" filter Cartridge



Flow Specification



Performance Specification

Material of Construction	Recommended Operating Conditions	Removal Ratings						Cartridge Dimensions
Media : Polypropylene Support and drainage : Polypropylene Core/cage/end-caps : Polypropylene Sealing : Thermal bonding	Maximum Differential Pressure : 75psi(5.1bar) (at 25°C) 25psi(1.7bar) (at 80°C)	Grade	Rating(μm)	Grade	Rating(μm)	Grade	Rating(μm)	Out diameter : 68mm In diameter : 28/30mm Length(mm) : 250, 254, 500, 508, 750, 762, 1000, 1016
		02	0.2	25	2.5	22	20	
		03	0.3	45	4.5	33	30	
		04	0.45	50	5.0	44	40	
		06	0.6	60	6.0	55	50	
		12	1.2	11	10	77	70	

Ordering Information

For example : If You want to Purchase IPH02A5ES, You CAN Choose relevant items, At the each of DATA Articles.

Brand		Type	Media	Removal Ratings Grade						End Cap Option	Length	O-ring Material	Special Option
I: IXTUS	P: Pleated	H: High Particle Holding PP grade P: High Performance PP grade C: High Cleanness PP grade G: Glass Media	Grade	Rating (μm)	Grade	Rating (μm)	Grade	Rating (μm)	A : 250mm D/O B : 254mm D/O C : 222 O-ring/Flat end D : 226 O-ring/Flat end E : 222 O-ring/Fin. end F : 226 O-ring/Fin. end G : 020 Internal O-ring M : 226 O-ring/Flat end (Modified Flat end)	5 : 5" 1 : 10" 2 : 20" 3 : 30" 4 : 40"	E : EPDM N : Buna-N S : Silicone V : Viton T : Teflon Encapsulated Viton	S : SUS ring Insertionated	
			02	0.2	25	2.5	22	20					
			03	0.3	45	4.5	33	30					
			04	0.45	50	5.0	44	40					
			06	0.6	60	6.0	55	50					
		12	1.2	11	10	77	70						

* Please inquire concerning any non-standard size.

Pleated Membrane Filter

DESCRIPTION

Hydrophobic PTFE, Hydrophilic PTFE, Nylon66 Cartridge Filters remove particles and micro-organisms greater than 0.2µm from gases and liquids.

Hydrophilic Nylon66, PVDF Pleated Cartridge Filters are manufactured from N66 membranes, Polyvinylidene fluoride and Polypropylene components used for the broad application compatibility.

Hydrophilic PES Pleated Cartridge Filter constructed of Polyethersulfone micro-porous membrane and Polypropylene support components enable Superior Durability and Particle Removal Performance, and can be used in the various applications.

Hydrophilic PES filter elements are integrity tested after manufacturing using Bubble Point and Air Diffusion.

Each Cartridge Filter is integrity tested during manufacturing to guarantee performance.

The materials are on the FDA listed as acceptable things to be Portable and Edible.



Applications

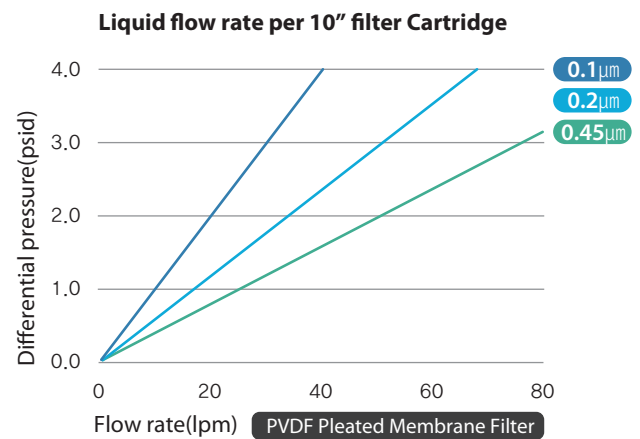
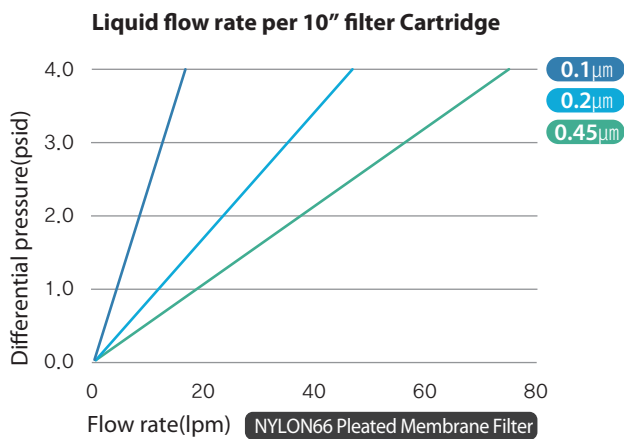
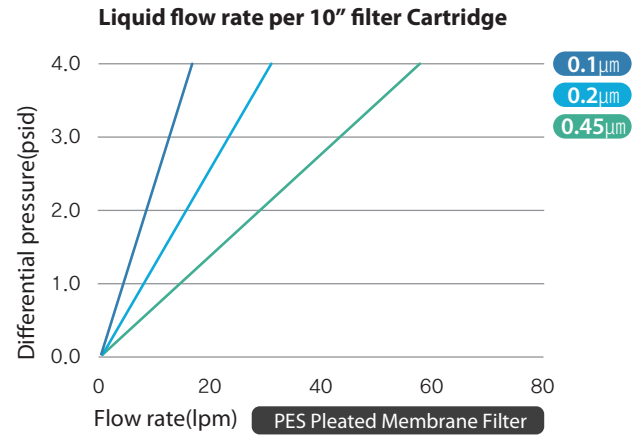
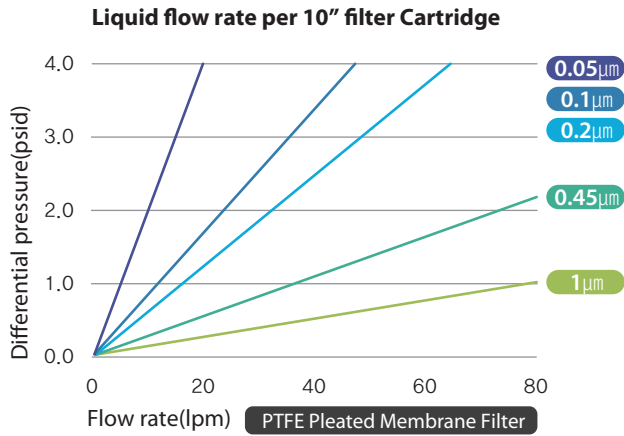
- Semi-conductor, FPD and Fine Chemicals
- Chemical Delivery System, Photolithography and Wet Chemicals
- Pharmaceutical applications
- Developer, Stripper, DI-water, L Central PAD, Polishing and Station
- Food & Beverage

Features	Advantages	Benefits
<ul style="list-style-type: none"> ● Performance tested 	<ul style="list-style-type: none"> ● Has the reliable Sterilizing Filtration 	<ul style="list-style-type: none"> ● Ease the validation and regulatory submission
<ul style="list-style-type: none"> ● Used in the various applications 	<ul style="list-style-type: none"> ● Allows the Maximum fluid and contaminant access to filter surface area for the highest throughput 	<ul style="list-style-type: none"> ● Enables Superior durability and Particle Removal Performance

Performance Specification

Material of Construction	Recommended Operating Conditions	Removal Ratings				Cartridge Dimensions
		Grade	Rating(µm)	Grade	Rating(µm)	
Media : Hydrophobic PTFE, Hydrophilic Nylon66, Polyethersulfone membrane, Hydrophilic Polyvinylidene fluoride Core/cage/end Caps and support : Polypropylene Sealing Method : Thermal bonding	Forward Pressure PTFE/PES/Nylon66 : 70psi(4.8bar) (at 25°C) Reverse pressure PTFE/PES/Nylon66 : 40psi(2.7bar) (at 25°C) PVDF : 50psi(3.5bar) (at 20°C)	A2	0.02	10	1	In diameter : 28/30mm Out diameter : 68mm Length(mm) : 250, 254, 500, 508, 750, 762, 1000, 1016
		A5	0.05	12	1.2	
		01	0.1	30	3	
		02	0.2	50	5	
		04	0.45	11	10	

Flow Specification



Ordering Information

For example : If You want to Purchase IPTFA2A5ES, You CAN Choose relevant items, At the each of DATA Articles.

Brand		Type	Media	Removal Ratings Grade				End Cap Option	Length	O-ring Material	Special Option
I	XTUS	P		Grade	Rating (μm)	Grade	Rating (μm)				
			TF : Hydrophobic PTFE	A2	0.02	10	1	A : 250mm D/O	5 : 5"	E : EPDM	
			TI : Hydrophilic PTFE	A5	0.05	12	1.2	B : 254mm D/O	1 : 10"	N : Buna-N	
			NI : Hydrophilic Nylon66	01	0.1	30	3	C : 222 O-ring/Flat end	2 : 20"	S : Silicone	S : SUS ring
			SI/SO : Hydrophilic PES	02	0.2	50	5	D : 226 O-ring/Flat end	3 : 30"	V : Viton	Insertionated
			VI : Hydrophilic PVDF	04	0.45	11	10	E : 222 O-ring/Fin. end	4 : 40"	T : Teflon	
								F : 226 O-ring/Fin. end		Encapsulated	
								G : 020 Internal O-ring		Viton	
								M : 226 O-ring/Flat end (Modified Flat end)			

* Please inquire concerning any non-standard size.

Filter
Depth Filter
Depth Filter I
Depth Filter II
Depth Filter
Depth Filter
Depth Filter
Filter
Pleated Membrane Filter
Jumbo
Ring & Flange
High Stable
Chemical

IJ Jumbo Depth Filter

DESCRIPTION

IJ Jumbo Depth Filter

The Jumbo Cartridge Filter is constructed of the Polyolefine Filter Media.

It is the High Functional Filter that maximizes the Removal Efficiency of the processed water and Chemical solution.

The materials are on the FDA listed as acceptable things to be Portable and Edible.

And it is available in a wide selection of micron from 1 μ m to 100 μ m.



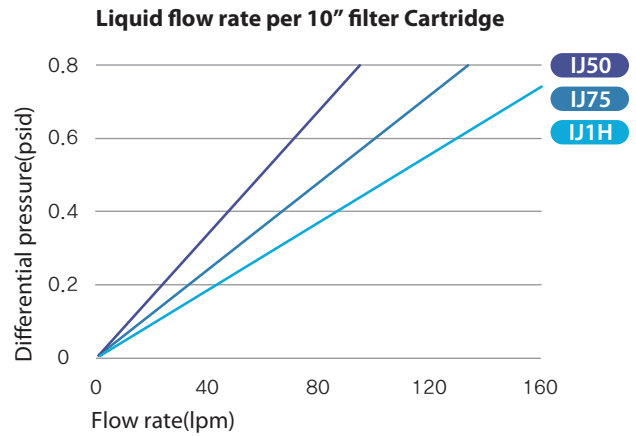
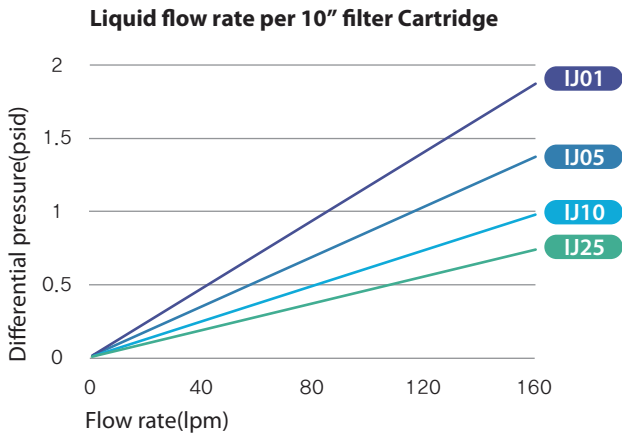
Applications

- Chemicals, DI-water & R/O pre-filters
- Water Treatment

Features and Benefits

- All the Polyolefine construction
- Coreless Filter structure
- The Reproducible Effluent Quality throughout the Filter's Life
- The Ensured Exact Retention ratings
- Its the High flow design and low pressure drop.
- Easiness of Replacing Filters
- The Highest particle Retention Capability

Flow Specification



Performance Specification

Material of Construction	Recommended Operating Conditions	Removal Ratings				Cartridge Dimensions
		IXTUS Depth Filter				
Media : Polyolefine Micro fiber 100% Structure : Coreless Cartridge	Maximum Differential Pressure : 70psi(4.8bar) (at 25°C) Maximum Temperature : (at 80°C)	Grade	Rating(μm)	Grade	Rating(μm)	In diameter : 56mm, 89mm, 113mm Out diameter : 140mm Length(mm) : 250, 500, 750, 1000
		01	1	25	25	
		05	5	50	50	
		10	10	75	75	
				1H	100	

Ordering Information

For example : If You want to Purchase IJ01A4E, You CAN Choose relevant items, At the each of DATA Articles.

Brand	Type	Removal Ratings Grade				End Cap Option	Length	O-ring Material
I: IXTUS	J: Jumbo	IXTUS Depth Filter				A: 250mm D/O B: 254mm D/O	1: 10" 2: 20" 3: 30" 4: 40"	E: EPDM N: Buna-N S: Silicone V: Viton T: Teflon Encapsulated Viton
		Grade	Rating(μm)	Grade	Rating(μm)			
		01	1	25	25			
		05	5	50	50			
		10	10	75	75			
		1H	100					

* Please inquire concerning any non-standard size.

Filter
 Depth Filter
 Depth Filter I
 Depth Filter II
 Depth Filter
 Depth Filter
 Depth Filter
 Filter
 Membrane Filter
 Bag Filter
 Ring & Flange
 High Stable
 Chemical

Ring & Flange Type Bag Filter

FEATURE & BENEFITS

Ring & Flange Type Bag Filter

- 100% filtering by absolutely preventing bypass.
- Improved Seal Integrity.
- The materials are on the FDA listed as acceptable things to be Portable and Edible.



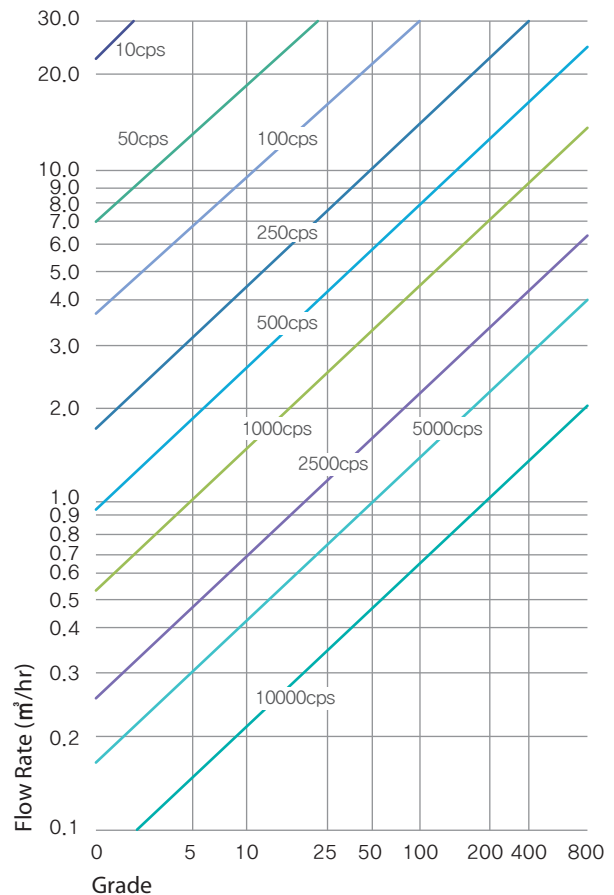
Applications

- Food & Beverages : Beer, Flavours, Juices, Syrup and Wines
- Industrials : Petroleum, Paints, Chemicals and Waste water
- Pharmaceutical applications

Advantage in use

- Collected contaminants build up in the bag filter, DUE TO the IN-OUT filtration system, which facilitates maintenance.

Flow Specification



Specification

Material of Construction	Cartridge Dimensions
Media : Polypropylene, Polyester, Nylon (Ring & Flange Type Bag Filter)	Bag Filter size : 100x230mm, 100x380mm, 180x430mm, 180x810mm

Bag Filter Size & Flow Rate

Bag Filter Size	Correction Factor
01 SIZE	X 0.3
02 SIZE	X 0.6
11 SIZE	X 1.0
12 SIZE	X 2.0

Micron Ratings (Ring & Flange Type Bag Filter)

	1	5	10	15	25	50	80	100	125	150	200	250	300	400	600	800
Polyester	●	●	●		●	●		●			●					
Polypropylene	●	●	●		●	●		●								
Nylon Monofilament Mesh				●	●	●	●	●	●	●	●	●	●	●	●	●

Ordering Information

For example : If You want to Purchase IPE25R02PW, You CAN Choose relevant items, At the each of DATA Articles.

Brand	Media	Micron	Type	Bag Filter Size	Ring material	Handle/Style
I : IXTUS Bag Filter	PE : Polyethylene Terephthalate PP : Polypropylene NM : Nylon Monofilament	1 : 1µm 25 : 25µm 800 : 800µm (* see Media Micron Ratings.)	R : Ring Type P : Plastic flange Type B : Band Type	01 : 100x230mm 02 : 100x380mm 11 : 180x430mm 12 : 180x810mm	E : SUS304 P : Plastic Ring Z : Zinc Plated Ring	W : With Handle N : None Handle S : Reverse style (standard) O : Outside Stitching

* Please inquire concerning any non-standard size.

Filter
 Depth Filter
 Depth Filter I
 Depth Filter II
 Depth Filter
 Depth Filter
 Depth Filter
 Filter
 Membrane Filter
 Depth Filter
 Ring & Flange Type Bag Filter
 High Stable
 Chemical

Bag Filter Housing

DESCRIPTION

Davit Type of Multi Bag Filter Housing

- Multi bag filter housing is designed to filter the liquid at more than 80m³/h flow rate. The liquid flows from side through upper cover dome into bag filter.
- The Special Locking device does not allow any bypass of liquid.
- However, special specifications are available at the customer's request.

Spring Lid Type of Multi Bag Filter Housing

- It opens and closes when the spring allows for minimum installation space.
- The locating outlet on the bottom side of housing allows the total height 30~50cm lower than standard type of Housing. Thus no foothold or ladder is necessary when replacing filters.
- Minimizing the number of eye bolts reduces the time for Filter Replacement.



Type of Housing		Multi Bag Filter Housing (Max. Operating Pressure : 6 bar, Max. Operating Temperature : 120°C)								
		Code	212	412	612	812	1012	1212	1612	2012
Material		SUS304 / SUS316 / Carbon Steel								
Max. Operating Pressure(bar)		6								
Max. Operating Temperature(°C)		120								
Standard Inlet / Outlet		3"(80A)	4"(100A)	6"(100A)	8"(200A)	10"(250A)	10"(250A)	12"(300A)	14"(350A)	16"(400A)
Max. Flow Rate(m ³ /h)		80	160	240	320	400	480	640	800	960
Flow Rate(m ³ /h)		40	80	120	160	200	240	320	400	480
Bag Filter Size		2x12	4x12	6x12	8x12	10x12	12x12	16x12	20x12	24x12
Filter Area(m ²)		1	2	3	4	5	6	8	10	12
Filter Volume(ℓ)/(approx.)		160	210	340	460	660	820	1100	1600	2100
Housing Weight in Dry(kg)/(approx.)		110	220	430	465	735	770	975	1050	1700
Dimension(mm)	A	1670	1759	1925	2070	2238	2358	2416	2772	2984
	B	1119	1151	1212	1261	1323	1433	1386	1637	1748
	C	400	435	510	560	635	660	735	790	880

Chemical Compatibility

This chart is intended only as a Guide. Users should verify chemical compatibility based upon experimentation with specific filter under actual use conditions: chemical compatibility is affected by many variables, including temperature, concentration and length of exposure.

- Chemical compatibility data :This data is presented as a customer service. Accuracy can not be guaranteed.
- Variables in customer use such as concentrations, purity, temperature, pressure, time and various chemical combinations prevent complete accuracy.

Data Interpretation Chemical Compatibility Observations are Divided into Three Categories as Follows :

R - Recommended : No significant changes observed in performance, physical properties, dimensions or visible indication of chemical attack of the cartridge filter.

LR - Limited Recommended : Moderate changes in physical properties or dimensions of the cartridge filter were observed. Filter may be suitable for short-term exposure at low pressure and ambient temperatures.

NR - Not Recommended : The cartridge filter is basically unstable. In most cases, extensive shrinking or swelling occurs. Filter may gradually weaken or partially dissolve after extended exposure Temperatures.

Filter media

Chemicals	PP	PES	PTFE
Acids			
Acetic acid, glacial	R	R	R
Acetic acid, 90%	R	R	R
Acetic acid, 30%	R	R	R
Acetic acid, 10%	R	R	R
Hydrochloric acid, conc	R	-	R
Hydrochloric acid, 6N	R	R	R
Nitric acid, conc.	R	-	R
Nitric acid, 6N	R	R	R
Sulfuric acid, conc.	R		R
Sulfuric acid, 6N	R		R
Phosphoric	R		R
Chromic acid, conc.	R		
Hydrofluoric acid, 6N	R	R	R
Alcohols			
Amyl alcohol	R	R	R
Benzyl alcohol, 100%	R		R
Benzyl alcohol, 3%	R		R
Butanol	R	R	R
Ethanol	R	R	R
Isopropanol	R	R	R
Methanol	R	R	R
Aromatic Hydrocarbons			
Benzene	NR	NR	LR
Toluene	NR		LR
Xylene	NR		LR
Bases			
Ammonium hydroxide, 3N	R		R
Ammonium hydroxide, 6N	R		R
Potassium hydroxide, 3N	R		
Sodium hydroxide, 3N	R		R
Sodium hydroxide, 6N	R		R
Esters			
Amyl acetate	R		R
Butyl acetate	LR		
Cellosolve acetate	R		
Ethyl acetate	LR		R
Isopropyl acetate	R		R
Methyl acetate	R		
Ethers			
Ethyl ether	LR		R
Isopropyl	R		R
Dioxane	R		
Tetrahydrofuran	NR		R

Chemicals	PP	PES	PTFE
Glycols			
Ethylene glycol	R	R	R
Glycerine	R	R	R
Propylene glycol	R	R	
Halogenated Hydrocarbons			
Carbon tetrachloride	LR	R	R
Chloroform	NR	R	R
ChlorotheneR NU	NR		
Ethylene dichloride	LR		
FreonR TF	LR		
Freon TMC	LR		R
GenosolvR D	-		
Methylene chloride	LR	R	LR
Perchloroethylene	NR		
Trichlorethylene	NR		
Ketones			
Acetone	R	R	R
Cyclohexanone	R	R	R
Methyl ethyl ketone	R		R
Methyl isobutyl ketone	R		R
Oils			
Cottonseed oil	R		
Lubrication oil MIL-L-7808	R		
Peanut oil	R		
Sesame oil	R		
White petrolatum	R		
Photoresists			
Positive	R		
Negative	R		
Miscellaneous			
Acetonitrile	LR		R
Aniline	LR		
Dimethyl formamide	R		R
Dimethyl sulfoxide	R		R
Formaldehyde, 37%	LR		R
Formaldehyde, 4%	R		R
Gasoline	NR		LR
Hexane, dry	NR		
JP-4	R		
Kerosene	R		
Nickel sulfate solution	R		
Phenol, liquefied	R		
Pyridine	LR	NR	
Skydrol500	-		
Turpentine	LR		
Water	R		

O-ring materials

Chemicals	EPR	Viton	Silicone	PTFE
Acetic Acid, Glacial	LR	NR	R	R
Acetone	R	NR	R	R
Acetonitrile	R	NR	NR	R
Alconox 1%	-	-	-	-
Ammonium Hydroxide	R	R	R	R
Ammonium Sulfate Saturated	R	R	R	R
Amyl Acetate	R	NR	NR	R
Amy Alcohol	R	R	NR	R
Benzene	NR	R	NR	R
Benzyl Alcohol	R	R	R	R
Boric Acid	R	R	R	-
Butyl Acetate	R	NR	NR	-
Butyl Alcohol	R	R	R	R
Carbon Tetrachloride	NR	R	NR	R
Cellosolve(Ethyl)	R	LR	NR	-
CHAPS(zwitterionic detergent)	-	LR	-	-
Chloroform	NR	R	NR	R
Cyclohexanone	LR	NR	LR	R
Diethyl Pyrocarbonate 0.2%	-	-	-	-
Dimethyl Sulfoxide	NR	NR	NR	R
Dimethylacetamide	NR	NR	R	-
Dimethylformamide	LR	NR	R	R
Dioxane	NR	NR	NR	R
Ether	NR	NR	LR	-
Ethyl Acetate	LR	NR	NR	-
Ethyl Alcohol	R	R	LR	R
Ethylene Glycol	R	R	R	R
Formaldehyde	R	NR	R	R
Formic Acid 50%	R	-	R	-
Freon TF or PCA	NR	R	R	-
Gasoline	NR	R	NR	R
Glycerine(Glycerol)	R	R	R	R
Guanidine HCl 6M	R	-	-	-
Guanidine Thiocyanate 5M	R	-	-	-
Helium	R	-	R	-
Hexane	NR	R	NR	R
Hydrochloric Acid 1N	NR	R	R	R
Hydrochloric Acid 6N	NR	R	R	R
Hydrochloric Acid Conc	NR	NR	R	R
Hydrofluoric Acid	NR	NR	NR	R
Hydrogen	R	R	NR	-
Hydrogen Peroxide 3%	R	R	R	R
Hydrogen Peroxide 30%	R	R	R	R
Hydrogen Peroxide 90%	NR	R	NR	-
Hypo (photo) Na	R	R	R	R
Isobutyl Alcohol	R	R	R	R
Isobutyl Acetate	R	NR	NR	R
Isobutyl Alcohol	R	R	R	R
Kerosene	NR	R	NR	-
Latic Acid 50%	R	R	R	-
Lubrol PX	-	-	-	-
MEK	R	NR	NR	-
Mercaptoethanol 0.1M	R	NR	-	-
Methyl Acetate	R	NR	NR	R
Methyl Alcohol	R	R	R	R
Methylene Chloride	NR	NR	NR	R
MIBK	R	NR	NR	-
Mineral Spirits	NR	R	NR	-
Nitric Acid 6N	R	R	NR	R
Nitric Acid (Conc.)	NR	R	NR	R
Nitrobenzene	NR	R	NR	R
Nitrogen	R	R	R	-
Nonudet-P 40	R	-	-	-
Ozone	R	NR	NR	-
Paraldehyde	R	NR	R	-
Pentane	NR	R	NR	R
Petroleum Ether	NR	R	NR	-
Phenol	R	R	NR	-
Potassium Hydroxide 3N	R	R	NR	-
Pyridine	NR	NR	NR	R
Silicone Oils	NR	R	NR	-
Sodium Carbonate	R	R	R	-

Filter

Depth
Filter

Depth Filter I

Depth Filter II

Depth Filter

Depth Filter

Filter

Membrane Filter

Depth Filter

Type Bag Filter

Housing
Process Tube

Chemical Compatibility

Filtration & Separation

Filtration is Essential
to all the application,
As oxygen is essential to life



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