

Water·Life·Future

your preferred source for perfect filtration products

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▶▶▶ Filter Material





S SERIES Wound Filter Cartridge

FEATURES AND BENEFITS

- Polypropylene, bleached cotton and glass Fiber filter medias for option
- High dirt holding capacity for depth filtration, protection of absolute filters
- Many connections(Cut Ends, 226, 222 End caps) are available
- Wide chemical compatibility, pH 1-13
- To max. length 70"

TYPICAL APPLICATIONS

- Prefiltration for pure water system
- Prefiltration for pharmaceutical and chemical solution
- Process and waste water prefiltration in electronics industry
- Wine,beer,mineral water,pure water,beverage filtration

SPECIFICATIONS

Materials Of Construction	Filter Media	Polypropylene/Bleached Cotton /Glass Fiber
	Micron Rating	1.0, 5.0, 10, 20 um
	Inner Core	Polypropylene/Stainless Steel
	O-Rings/Gaskets (Only for 226, 222 Ends)	Silicone, Nitrile, EPDM, Viton
	Filtration Efficiency	≥80%
Cartridge Dimensions	Outer Diameter	63mm(2.5"), 114mm(4.5")
	Inner Diameter	28mm(1.1")
	Length(based on Cut Ends)	10", 20", 30", 40", 50", 60", 70"
	Filtration Area(m ²)	0.4 m ² per 10"
Operating conditions	Polypropylene	80°C (176 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Bleached Cotton	150 °C (302 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Polypropylene	4.0 bar(58psi) at 25°C (77 °F)
	Bleached Cotton	5.0 bar(72psi) at 25°C (77 °F)
	PH Value Compatibility	1-13
	Sterilization	Not recommended



SPA SERIES Melt Blown Filter Cartridge

FEATURES AND BENEFITS

- 100% high purity polypropylene (melt blown), no adhesives
- High dirt holding capacity and low pressure loss
- Many connections(DOE, 226, 222 End caps)are available
- Wide chemical compatibility, various micron ratings(1um to 100um)
- One piece construction, up to 1524mm(60")

TYPICAL APPLICATIONS

- Prefiltration in process water treatment industry
- Clarification for waste water treatment
- Bottled water, wine, beer pre-filtration in food&beverage industry
- Prefiltration before RO system in electronics process water
- Organic solvents, inks, plating solution, metal cutting, fluids,photoresist filtration

SPECIFICATIONS

Materials Of Construction	Filter Media	Melt Blown Polypropylene
	Micron Rating	1.0, 5.0, 10.0, 20, 50, 70, 100um
	Inner Core	Polypropylene or Coreless
	O-Rings/Gaskets (Only for 226, 222 Ends)	Silicone, Nitrile, EPDM, Viton
	Filtration Efficiency	≥ 80%
Cartridge Dimensions	Outer Diameter	63mm (2.5") / 114mm (4.5")
	Inner Diameter	28mm (1.10")
	Length(based on Cut Ends)	10", 20", 30", 40", 50", 60"
	Filtration Area(m2)	0.4 m2 per 10"
Operating conditions	Normal Operating Temperature	Up to 50°C (122 °F)
	Max.Operating Temperature.	80°C (176 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Normal Flow direction	4.0 bar (58psi) at 25°C (77 °F)
	Reverse Flow direction	2.0 bar (29psi) at 25°C (77 °F).
	PH Value Compatibility	1-13
	Sterilization	Not recommended

CTO SERIES Activated Carbon Block Filter



FEATURES AND BENEFITS

- Excellent adsorptive capacity, high particles removal efficiency
- High chlorine taste and odor reduction
- Long service life

TYPICAL APPLICATIONS

- Pre-filtration or pre-treatment in RO applications
- Chlorine and odor removal
- Color reduction

SPECIFICATIONS

Materials Of Construction	Filter Media:	Activated Carbon
	Micron Rating:	5.0 um
	Inner Core:	Polypropylene Non-Woven Cloth
	Outer Cage:	Polypropylene Non-Woven Cloth
	End Cap:	Polypropylene
	O-Rings/Gaskets:	Silicone
	Removal Efficiency:	≥ 90%
Cartridge Dimensions	Outer Diameter	65mm(2.5")
	Inner Diameter	28mm(1.1")
	Length(based on DOE End Cap)	10"-250mm, 20"-500mm,30"-750mm, 40"-1000mm
	Filtration Area(m2)	0.4 m2 per 10"
Operating conditions	Normal Operating Temperature:	Up to 55°C (131 °F)
	Normal Flow Direction:	4.0 bar (58 psi) at 25°C (77 °F)
	Reverse Flow direction:	2.0 bar (29 psi) at 25°C (77 °F).

GAC SERIES Activated Carbon Filter



FEATURES AND BENEFITS

- Excellent adsorptive capacity, high particles removal efficiency
- High chlorine taste and odor reduction
- Long service life

TYPICAL APPLICATIONS

- Pre-filtration or pre-treatment in RO applications
- Chlorine and odor removal
- Color reduction

SPECIFICATIONS

Materials Of Construction	Filter Media:	Activated Carbon
	Micron Rating:	5.0 um
	Outer Cage:	Polypropylene
	End Cap:	Polypropylene
	O-Rings/Gaskets:	Silicone
	Removal Efficiency:	≥ 90%
Cartridge Dimensions	Outer Diameter	65mm(2.5")
	Inner Diameter	28mm(1.1")
	Length(based on DOE End Cap)	10"-250mm, 20"-500mm, 30"-750mm, 40"-1000mm
	Filtration Area(m2)	0.4 m2 per 10"
Operating conditions	Normal Operating Temperature:	Up to 55°C (131 °F)
	Normal Flow Direction:	4.0 bar (58 psi) at 25°C (77 °F)
	Reverse Flow direction:	2.0 bar (29 psi) at 25°C (77 °F).



FEATURES AND BENEFITS

- Economical

Filter bags provide cost effective filtration for industrial applications. High filtration performance and extended life time, Washable and reusable.

- Large Flow Rate

Suitable for the large volume or high viscosity liquid filtration.

- Wide Chemical Compatibility

Filter bags are made of different materials in various micron ratings. Which can be compatible for many situations.

- 100% Welded Seams

All abutting edges are welded without media migration or bypass.

Customized Filter Bags Are Available

FILTER BAG MATERIALS



Polyester Needle Felt (PET)



Polypropylene Needle Felt (PPF)



Polypropylene Plain(PPP)



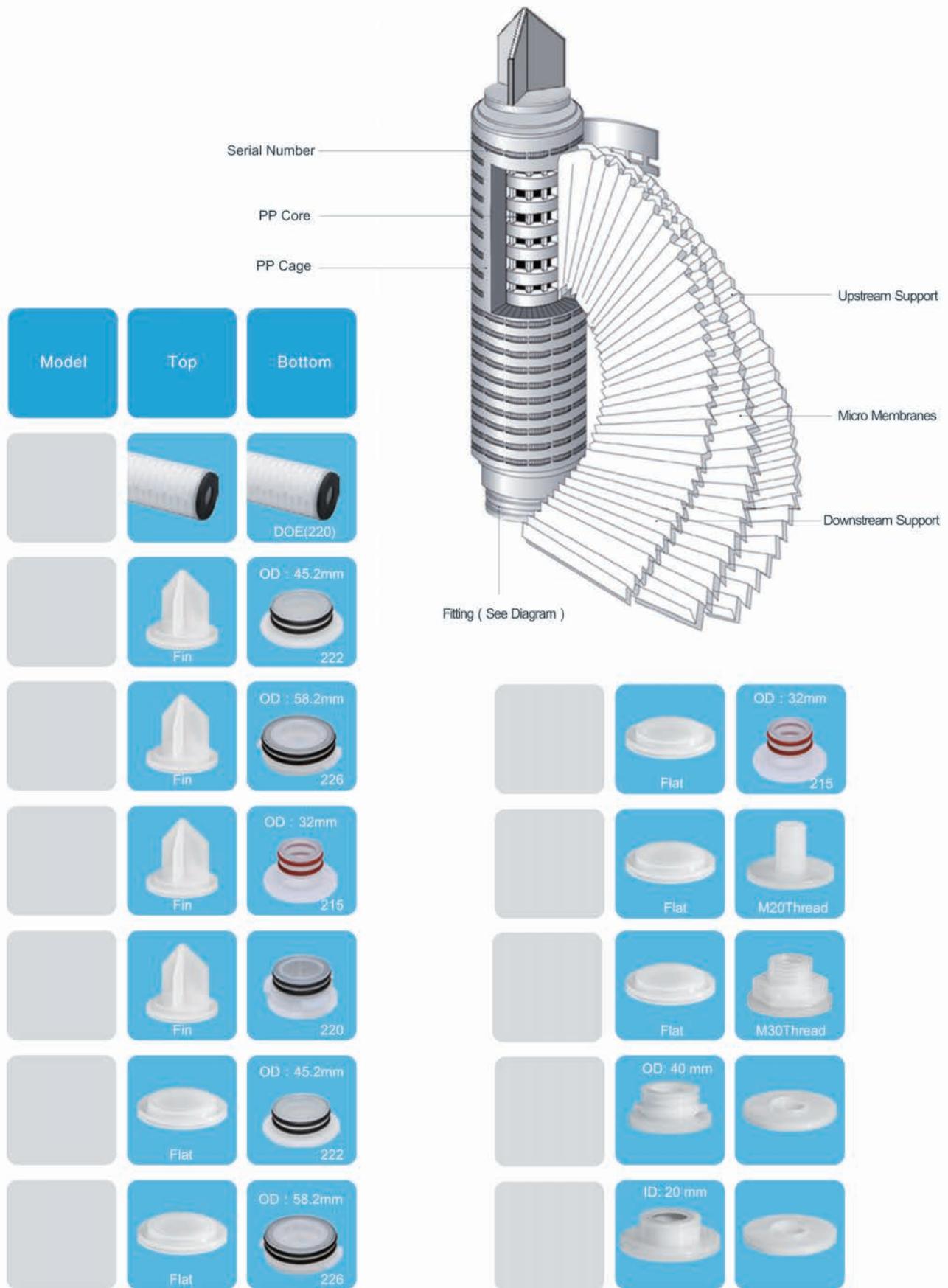
Nylon Monofilament (NMO)

FILTER BAG SPECIFICATION

Type	Flow rate(m ³ /h)	Filtration Area(m ²)	Size (Diameter X Length)
#1	20	0.25	7" x 16" (180mm x410mm)
#2	40	0.50	7" x 32" (180mm x 810mm)
#3	6	0.10	4" x 8.25" (102mm x 210mm)
#4	12	0.15	4" x 14" (102mm x 356mm)
#5	25	0.30	6,7/8" x 34" (175mm x 870mm)

*Size could be on your request.

END CAPS



PM SERIES

Pleated Depth Filter



TYPICAL APPLICATIONS

- Pharmaceuticals; APIs; Biologics;
- Fine Chemicals; Plating solutions; Ink
- Food & Beverages; Wine, Beer, Mineral Water
- Electronics; Semi-Conductor, LCD Display; Discs

FEATURES AND BENEFITS

- Nominally rated filters designed for particle removal applications in liquids and gases
- Complete polypropylene structure offer wide chemical compatibility
- Broad range of micron ratings from 0.1um to 100um
- Thermally bonded and adhesive free, No media migration into the process fluid
- Economical choice for the prefiltration and guard filtration before critical filtration

SPECIFICATIONS

	Filter Media	Polypropylene
Materials Of Construction	Support Layers	Polypropylene
	Micron Rating	0.1, 0.2, 0.45, 0.65, 1.0, 2.0, 3.0, 5.0, 10, 30, 40, 50, 70, 100 μm
	Inner Core	Polypropylene
	Outer Cage, End Cap	Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton, Teflon
Cartridge Dimensions	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
	Filtration Area(m ²)	0.65 m ² per 10"
Operating Conditions	Normal Operating Temperature	Up to 55°C (131 °F)
	Max.operating Temperature	80°C (176 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F).
	PH Value Compatibility	1-13
	Sterilization	Not recommended
Cartridge Safety	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

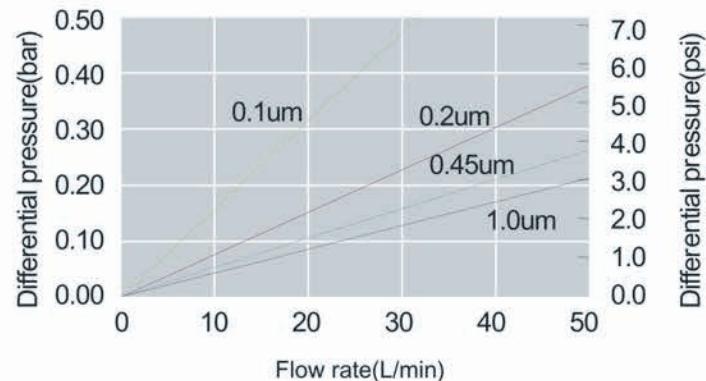
LIQUID RETENTION RATINGS(um) TEST

Cartridge Code	$\geq 90\%$	$\geq 99\%$
PM010	0.1	0.8
PM020	0.2	1.2
PM045	0.45	3
PM100	1	5
PM500	5	20



IPM SERIES Pleated Depth Filter

TYPICAL WATER FLOW RATE @ 25 °C (10")



FEATURES AND BENEFITS

- Graded density ultra-fine polypropylene membrane filter, could provide absolute rating filtration
- Pleated depth media for high flow rate and maximum dirt holding capacity
- 100% polypropylene construction offers broad chemical compatibility
- High retention efficiency provide excellent protection of downstream filters
- No fiber migration into the process fluid

SPECIFICATIONS

Materials Of Construction	Filter Media	Polypropylene
	Support Layers	Polypropylene
	Micron Rating	0.1, 0.2, 0.45, 0.65, 1.0, 3.0, 5.0um
	Inner Core	Polypropylene
	Outer Cage, End Cap	Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton, Teflon
Cartridge Dimensions	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
	Filtration Area(m2)	0.65 m2 per 10"
Operating Conditions	Normal Operating Temperature	Up to 60°C (140 °F)
	Max.operating Temperature	80°C (176 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F).
	PH Value Compatibility	1-13
	Sterilization	Steam Sterilization for 30 minutes at 121±2 °C, Cumulative Time: 15hours; Flush with hot water at 82°C (180 °F)minutes, at $\Delta P \geq 1.0$ bar (14.5psi) – Recommended
Cartridge Safety	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

LIQUID RETENTION RATINGS(um) TEST

Cartridge Code	≥ 99%
IPM010	0.1
IPM020	0.2
IPM045	0.45
IPM100	1.0

PMM SERIES Pleated Depth Filter

SPECIFICATIONS

Materials Of Construction	Filter Media	Multiple layers Polypropylene
	Support Layers	Polypropylene
	Micron Rating	0.2, 0.45, 1.0, 3.0, 5.0, 10, 20 um.....
	Inner Core	Polypropylene
	Outer Cage, End Cap	Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
Cartridge Dimensions	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton, Teflon
	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
Operating Conditions	Filtration Area(m2)	0.60 m2 per 10"
	Normal Operating Temperature	Up to 55°C (131 °F)
	Max.operating Temperature	80°C (176 °F) at Δ P \geq 1.0 bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	1-13
Cartridge Safety	Sterilization	Flush with hot water at 82°C (180 °F) for 30 minutes,at Δ P \geq 1.0 bar (14.5psi)
	Endotoxin	< 0.25 EU/ml
	Extractables	0.03 g / 10"

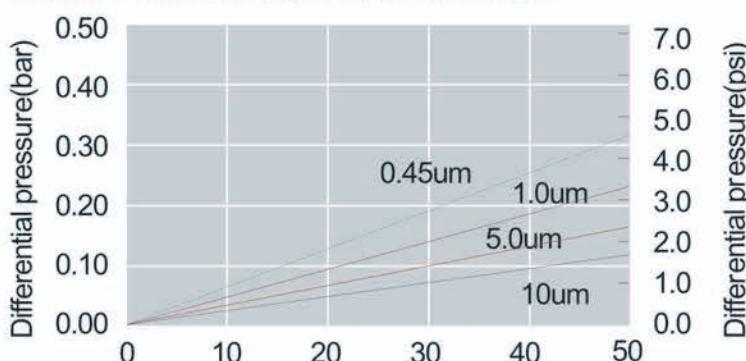
FEATURES AND BENEFITS

- Multi layers fine polypropylene membrane offer superior dirt holding capacity
- High flow rate and excellent filtration efficiency
- Complete Polypropylene structure, wide chemical compatibility
- Good choice for the fluids which is high viscosity or contain high bio-burdens

TYPICAL APPLICATIONS

- High viscosity fluids, such as syrups
- Wine, Beer, Juice and mineral water in beverage industry
- Ink, Solvents, plating solutions
- Prefiltration of R.O. system in electronics industry
- Oral Liquids, Parenterals, Ophthalmics, Vaccines and other pharmaceuticals

TYPICAL WATER FLOW RATE @ 25 °C (10")



LIQUID RETENTION RATINGS(um) TEST

Cartridge Code	$\geq 95\%$
PMM045	0.45
PMM100	1
PMM300	3
PMM500	5
PMM1000	10
PMM2000	20



GF SERIES
Glass Microfiber
Membrane Filter

FEATURES AND BENEFITS

- Combination of highly adsorptive and mechanical retention for effective clarification
- High dirt holding capacity and excellent flow performance
- Suitable for the removal of colloids, lipids, protein aggregates and particles
- Glass fiber or PP prefilter layer is available for higher dirt holding capacity and longer service life
- Good oil resistance, wide chemical compatibility
- Economical and ideal choice for protection of final membrane filters

TYPICAL APPLICATIONS

- Clarification of wine, spirits, fruit juices, soft drinks or other beverages
- Removal of colloids, lipids and protein aggregates in cell cultures, ophthalmics, LVPs, serum and other media in bio-pharmaceutical industry
- Prefiltration of fine chemicals, as reagents, inks and paints
- Kinds of lubricating oil and hydraulic oil clarification
- Oil and other contaminants removal in air/gas filtration

SPECIFICATIONS

Materials Of Construction	Filter Media	Glass Microfiber(GF)
	Support Layers	Polypropylene
	Micron Rating	0.45, 1.0, 3.0, 5.0, 10um
	Inner Core	Polypropylene
	Outer Cage, End Cap	Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton, Teflon
	Filtration Efficiency	≥ 90%
Cartridge Dimensions	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
	Filtration Area(m ²)	0.5 m ² per 10"
Operating Conditions	Normal Operating Temperature	Up to 60°C (140 °F)
	Max.operating Temperature	85°C (185 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	1-13
	Sterilization	In-line steam sterilization is Not recommended, Flush with hot water at 82°C (180 °F) for 30 minutes
	Cartridge Safety	
Cartridge Safety	Endotoxin	< 0.25 EU/ml
	Extractables	0.03 g / 10"

PES SERIES
Polyethersulfone
(PES) Membrane Filter



FEATURES AND BENEFITS

- Absolute rate inherently hydrophilic PES membrane filter for sterilizing grade filtration
- Highly asymmetric PES membrane provides high dirt holding capacity and long service life
- Higher throughput and flow-rate than any other sterilizing grade filter cartridge
- Low protein binding, suit for a broad range of pharmaceutical products
- Excellent resistance to hydrolysis allows use in Ultra Pure Water(UPW) system

TYPICAL APPLICATIONS

- Sterile filtration for water, mineral water, wine, beer and other beverages
- Bacterial removal of API, LPV, blood serum, biologicals, buffers, culture media and other pharmaceuticals
- Ultrapure water and disk, display, multi silicon process water in electronics
- Fine chemicals, water process

SPECIFICATIONS

Materials Of Construction	Filter Media	Asymmetric PES Membrane
	Support Layers	Polypropylene
	Micron Rating	0.04, 0.1, 0.2, 0.45, 0.65, 0.85, 1.2 um
	Inner Core	Reinforced Polypropylene
	Outer Cage, End Cap	Reinforced Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets:	Silicone, Nitrile, EPDM, Viton, Teflon
Cartridge Dimensions	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10", 20", 30", 40"
	Filtration Area(m2)	0.65 m ² per 10"
Operating Conditions	Normal Operating Temperature	Up to 60°C (140 °F)
	Max.operating Temperature	85°C (185 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	2-13
	Sterilization	Steam Sterilization for 30 minutes at 121±2 °C , Cumulative Time: 8 hours
Cartridge Safety	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

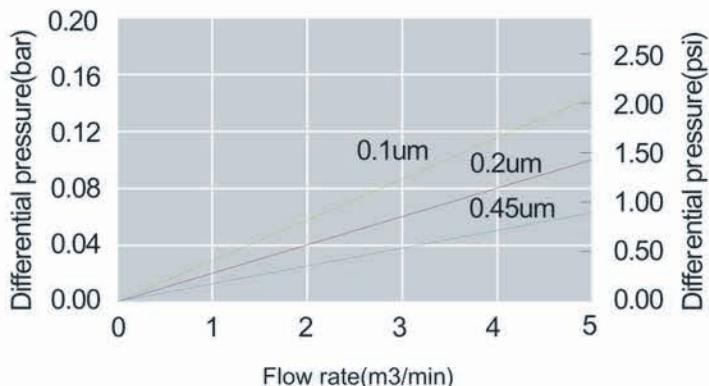
100% Integrity Test - Purified water at 25°C (77 °F)

Cartridge Code	Bubble Point
PES004*	≥ 3.0 bar (43psi)
PES010*	≥ 2.1 bar (30psi)
PES020	≥ 3.2 bar (46psi)
PES045	≥ 2.0 bar (29psi)
PES065	≥ 1.4 bar (20psi)
Test Liquid*: 70%/30% IPA/WATER at 23°C (73 °F)	



APF SERIES Hydrophobic PTFE Membrane Filter

TYPICAL AIR FLOW RATE @ 25 °C (10")



FEATURES AND BENEFITS

- Naturally hydrophobic PTFE membrane with excellent porosity, high flow rate
- Absolute rating, filtration efficiency $\geq 99.99\%$, Up to 0.01 micron in gas sterile filtration
- Low pressure drop and long service life
- Wide chemical compatibility, resistant to strong alkali, acids, aggressive gases and solvents
- High temperature endurance performance
- 100% integrity tested before final assembly

TYPICAL APPLICATIONS

- Compressed air, CO₂ line sterile filtration
- Tank vent, Fermentation air
- Air filtration in aseptic packaging
- Aggressive acids, Bases, Solvents
- Photoresists, Etch Solutions

100% INTEGRITY TEST

Cartridge Code	Bubble Point
APF010	$\geq 1.3\text{bar (19psi)}$
APF020	$\geq 0.9\text{bar (13psi)}$
APF045	$\geq 0.4\text{bar (5.8psi)}$

* Test Liquid: 70%/30% IPA/WATER at 23°C (73 °F)

SPECIFICATIONS

Materials Of Construction	Filter Media	Hydrophobic PTFE membrane
	Support Layers	Polypropylene
	Micron Rating	0.1, 0.2, 0.45, 0.65, 1.0, 3.0 um
	Inner Core	Reinforced Polypropylene/Stainless Steel
	Outer Cage	Reinforced Polypropylene
	End Cap	Polypropylene / Stainless Steel Insert
	Seal Method	Thermal Bonded, No Adhesives
Cartridge Dimensions	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton, Teflon
	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
Operating Conditions	Filtration Area(m2)	0.65 m ² per 10"
	Normal Operating Temperature:	Up to 65°C (149 °F)
	Max.operating Temperature:	90°C (194 °F) at $\Delta P \geq 1.0 \text{ bar (14.5psi)}$
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	1-14
Cartridge Safety	Sterilization	Steam Sterilization for 30 minutes at 121±2 °C , 100 cycles, Autoclave 30minutes (optional)
	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

LPF SERIES Hydrophilic PTFE Membrane Filter



SPECIFICATIONS

Materials Of Construction	Filter Media	Hydrophilic PTFE membrane
	Support Layers	Polypropylene
	Micron Rating	0.1, 0.2, 0.45, 0.65, 1.0, 3.0um
	Inner Core	Reinforced Polypropylene
	Outer Cage, End Cap	Reinforced Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton, Teflon
Cartridge Dimensions	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
	Filtration Area(m ²)	0.65 m ² per 10"
Operating Conditions	Normal Operating Temperature	Up to 65°C (149 °F)
	Max.operating Temperature	90°C (194 °F) at Δ P = 1.0 bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	1-14
Cartridge Safety	Sterilization	Steam Sterilization for 30 minutes at 121±2 °C, 100 cycles, Autoclave 30minutes (optional)*
	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

FEATURES AND BENEFITS

- Hydrophilic PTFE membrane suit for liquids sterile filtration, no prewetting
- High filtration efficiency, $\geq 99.99\%$, long service life
- Uniform pore-size distribution allow high flow rate
- Superior chemical compatibility, ideal for strong alkali and acids, resistant to high temperature, ozone
- 100% integrity test, no fiber releasing

TYPICAL APPLICATIONS

- Mineral water, purified water, ozone, strong oxidizing liquid filtration
- High temperature liquids filtration
- Strong alkali, acids, corrosive liquids filtration

100% INTEGRITY TEST

Cartridge Code	Bubble Point
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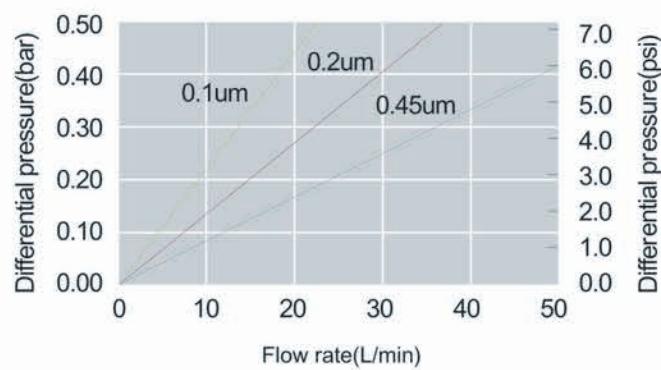
LPF010 $\geq 1.3\text{bar (19psi)}$

LPF020 $\geq 0.9\text{bar (13psi)}$

LPF045 $\geq 0.4\text{bar (5.8psi)}$

* Test Liquid: 70%/30% IPA/WATER at 23°C (73 °F)

TYPICAL WATER FLOW RATE @ 25 °C (10")





APV SERIES
Hydrophobic PVDF
Membrane Filter

FEATURES AND BENEFITS

- Hydrophobic PVDF membrane for gas and solvents sterile filtration
- Absolute rating, filtration effective is $\geq 99.99\%$, Minimum micron to 0.1um
- Wide Chemical compatibility, low protein binding
- 100% integrity test

100% INTEGRITY TEST

TYPICAL APPLICATIONS

- Fermentation air
- Tank vent
- Compressed air
- Sterile filtration of aggressive solvents/gases

Cartridge Code	Bubble Point
APV010	$\geq 0.6\text{bar (8.7psi)}$
APV020	$\geq 0.35\text{bar (5.1psi)}$
APV045	$\geq 0.20\text{bar (2.9psi)}$

* Test Liquid: 70%/30% IPA/WATER at 23°C (73 °F)

SPECIFICATIONS

Materials Of Construction	Filter Media	Hydrophobic PVDF Membrane
	Support Layers	Polypropylene
	Micron Rating	0.1, 0.2, 0.45, 0.65, 1.0, 3.0 um
	Inner Core	Reinforced Polypropylene
	Outer Cage, End Cap	Reinforced Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton, Teflon
Cartridge Dimensions	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
	Filtration Area(m2)	0.65 m2 per 10"
Operating Conditions	Normal Operating Temperature	Up to 65°C (149 °F)
	Max.operating Temperature	90°C (194 °F) at $\Delta P \geq 1.0 \text{ bar (14.5psi)}$
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	1-13
	Sterilization	Steam Sterilization for 30 minutes at 135°C (275 °F), Cumulative Time: 50hours
Cartridge Safety	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

LPV SERIES Hydrophilic PVDF Membrane Filter



SPECIFICATIONS

Materials Of Construction	Filter Media	Hydrophilic PVDF Membrane
	Support Layers	Polypropylene
	Micron Rating	0.1, 0.2, 0.45, 0.65, 1.0, 3.0 um
	Inner Core	Reinforced Polypropylene
	Outer Cage, End Cap	Reinforced Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
Cartridge Dimensions	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton, Teflon
	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
Operating Conditions	Filtration Area(m ²)	0.65 m ² per 10"
	Normal Operating Temperature	Up to 65°C (149 °F)
	Max.operating Temperature	90°C (194 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	1-13
Cartridge Safety	Sterilization	Steam Sterilization for 30 minutes at 135°C (275 °F), Cumulative Time: 50hours
	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

FEATURES AND BENEFITS

- Hydrophilic PVDF Membrane filter for liquids sterile filtration, absolute rating
- Low protein binding and low extractables, ideal for bioburden reduction and particle removal
- High throughput flow rate with minimal differential pressure
- Broad chemical compatibility, suitable for aggressive, high viscosity liquids
- Withstand multiple steam sterilization

TYPICAL APPLICATIONS

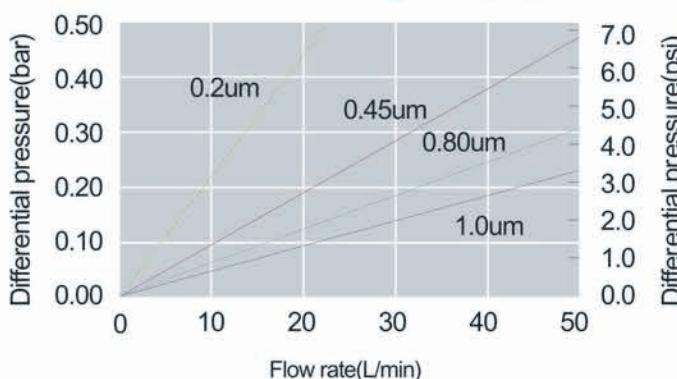
- Ophthalmics, WFI
- Diagnostics, diluents, serum, tissue culture media and media additives
- Sterile filtration of high viscosity liquid
- Strong alkaline, acids and aggressive solvents

100% INTEGRITY TEST

Cartridge Code	Bubble Point
LPV020	≥ 0.6 bar (8.7psi)
LPV045	≥ 0.35 bar (5.1psi)
LPV080	≥ 0.25 bar (3.6psi)
LPV100	≥ 0.20 bar (2.9psi)

* Test Liquid: 70%/30% IPA/WATER at 23°C (73 °F)

TYPICAL WATER FLOW RATE @ 25 °C (10")



PN66 SERIES Nylon 6 6 Membrane Filter



SPECIFICATIONS

Materials Of Construction	Filter Media	Hydrophilic Nylon66 Membrane
	Support Layers	Polypropylene
	Micron Rating	0.1, 0.2, 0.45, 0.65, 1.0 um
	Inner Core	Polypropylene
	Outer Cage, End Cap	Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton
Cartridge Dimensions	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
	Filtration Area(m2)	0.65 m2 per 10"
Operating Conditions	Normal Operating Temperature	Up to 60°C (140 °F)
	Max.operating Temperature	80°C (176 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	6-14
Cartridge Safety	Sterilization	Steam Sterilization for 30 minutes at 135°C (275 °F), cumulative Time: 3hours, autoclave 30 minutes (optional)
	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

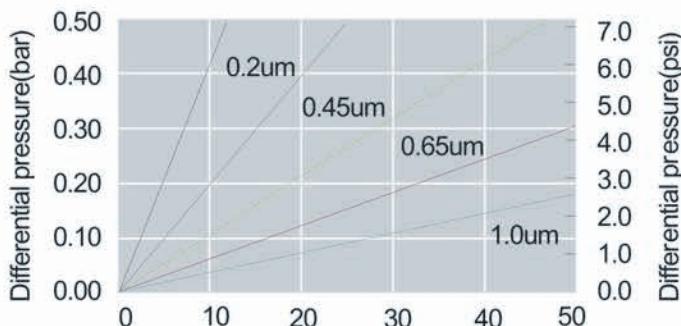
FEATURES AND BENEFITS

- Naturally hydrophilic Nylon 6 6 membrane for sterile filtration, absolute rating $\geq 99.99\%$
- Chemical resistant to alkaline solutions and solvents, ideally suitable for sterile filtration of those
- Excellent flow rate and cost-effective
- High non-specific adsorption and low extractables
- 100% integrity test

TYPICAL APPLICATIONS

- Bacterial removal of wine, beer, mineral water, pure water
- Sterile filtration of solvents, as bulk pharmaceutical chemicals, LVP, solvents for HPLC
- Fine chemicals, especially ketone, ester, ether
- Ultrapure water and disk, display, multi silicon process water in Electronics
- Digital inks

TYPICAL WATER FLOW RATE @ 25 °C (10")



100% Integrity Test - Purified water at 25°C (77 °F)

Cartridge Code	Bubble Point
PN66 010	≥ 4.5 bar (65psi)
PN66 020	≥ 3.2 bar (46psi)
PN66 045	≥ 2.0 bar (29psi)
PN66 100	≥ 0.9 bar (13psi)

MF SERIES Membrane Filter



SPECIFICATIONS

Materials Of Construction	Filter Media	MF Membrane
	Support Layers	Polypropylene
	Micron Rating	0.2, 0.45, 0.65, 1.0 um
	Inner Core	Polypropylene
	Outer Cage, End Cap	Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton, Teflon
Cartridge Dimensions	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
	Filtration Area(m2)	0.6 m2 per 10"
Operating Conditions	Normal Operating Temperature	Up to 55°C (131 °F)
	Max.operating Temperature	80°C (176 °F) at $\Delta P = 1.0$ bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	6-8
	Sterilization	Steam Sterilization for 30 minutes at 135°C (275 °F), Cumulative Time: 2.5 hours*
Cartridge Safety	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

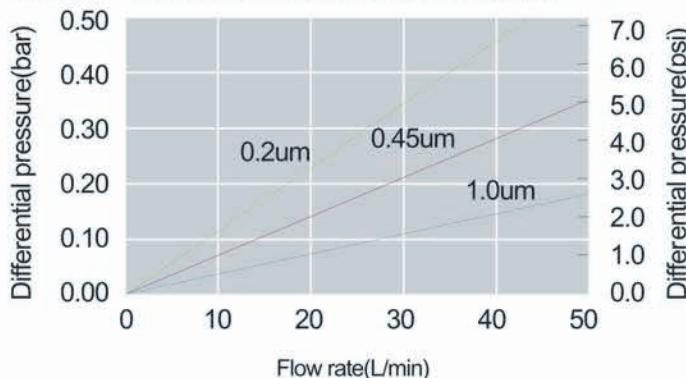
FEATURES AND BENEFITS

- Naturally Hydrophilic mixed cellulose esters(MF) membrane
- Absolute Rating, Filtration effective $\geq 99.99\%$
- Low binding capacity,suitable for the filtration of high value biological solutions and pharmaceuticals
- Super flow rate for water or near water liquid filtration
- 100% integrity test

TYPICAL APPLICATIONS

- Pharmaceuticals; Plasma; Serum; Vaccine; Ophthalmics; LVP; SVP
- Alcohol, Wine, Beer, Juice, Colas, Bottled water
- Process water of microelectronics application

TYPICAL WATER FLOW RATE @ 25 °C (10")



100% INTEGRITY TEST

Cartridge Code	Bubble Point
MF020	≥ 1.6 bar (23psi)
MF045	≥ 0.8 bar (12psi)
MF100	≥ 0.2 bar (3psi)

* Test Liquid: Purified water at 25°C (77 °F)



CP SERIES Pleated Filter Cartridge

SPECIFICATIONS

Materials Of Construction	Filter Media	Polypropylene (PP) / Glass Fiber (GF)
	Support Layers	Polypropylene
	Inner Core	Polypropylene
	Outer Cage, End Cap	Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton
Micron Rating	Polypropylene	0.20, 0.45, 1.0, 3.0, 5.0, 10.0, 20.0 um
	Glass Fiber	0.45, 1.0, 2.0, 3.0, 5.0 um
Cartridge Dimensions	Outer Diameter	69mm(2.75")
	Inner Diameter	33mm(1.30")
	Length(Based On DOE End Cap)	20"- 508mm, 30"-762 mm, 40"- 1016mm
	Filtration Area(m2)	0.65 m2 per 10"
Operating Conditions	Normal Operating Temperature	Up to 55°C (131 °F)
	Max.operating Temperature.	80°C (176 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	1-13
Cartridge Safety	Sterilization	Steam Sterilization for 30 minutes at 121±2 °C
	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

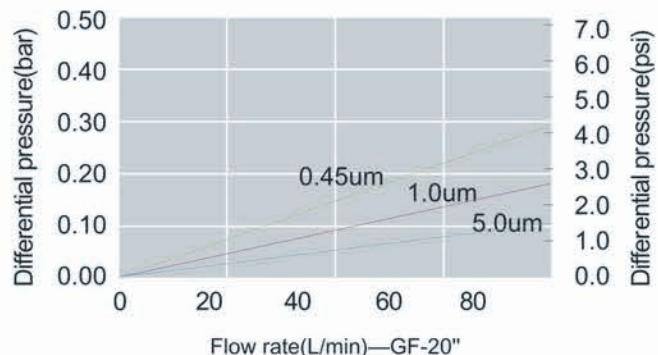
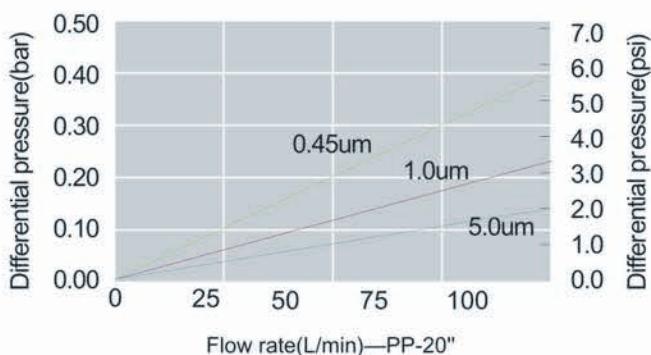
FEATURES AND BENEFITS

- Single piece construction with larger surface area
- Polypropylene and Glasss fiber filter medias for option
- Cage without any joints, less leakage possibility
- Thermal bonded, No adhesives, up to 40inch length

TYPICAL APPLICATIONS

- R.O. prefiltration
- Oil field water filtration
- Chemical processing
- Pharmaceuticals
- Wine clarification

TYPICAL WATER FLOW RATE @ 25 °C (10")



HF SERIES High Flow Rate Filter Cartridge



SPECIFICATIONS

Materials Of Construction	Filter Media	Polypropylene (PP) or Polyethersulfone (PES)	
	Support Layers	Polypropylene	
	Inner Core	Polypropylene	
	Outer Cage, End Cap	Polypropylene	
	Seal Method	Thermal Bonded, No Adhesives	
	O-Rings/Gaskets	Silicone, EPDM, Viton, Teflon	
	Micron Rating	PP: 0.1, 0.2, 0.45, 1, 3, 5, 10, 20, 30 PES: 0.1, 0.2, 0.45, 1	
Cartridge Dimensions	Outer Diameter	83 mm(3.26")	130 mm(5.11")
	Inner Diameter	40 mm(1.57")	63 mm(2.48")
	Length	10~40in	
	Filtration Area(m ²)	≥ 1.0 m ²	≥ 2.0 m ²
Operating Conditions	Normal Operating Temperature	Up to 60°C (140 °F)	
	Max.operating Temperature.	80°C (176 °F) at $\Delta P \geq 1.0$ bar (14.5psi)	
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)	
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)	
Cartridge Safety	PH Value Compatibility	1-13	
	Endotoxin	< 0.25 EU/ml	
	Extractables	0.03g / 10"	

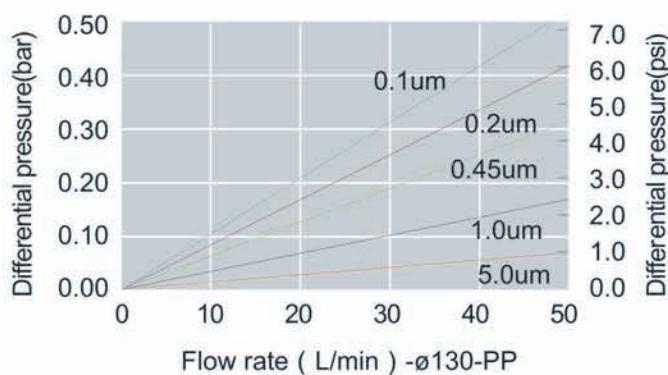
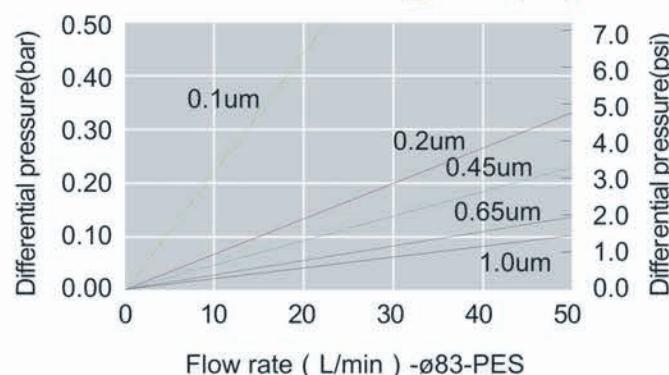
FEATURES AND BENEFITS

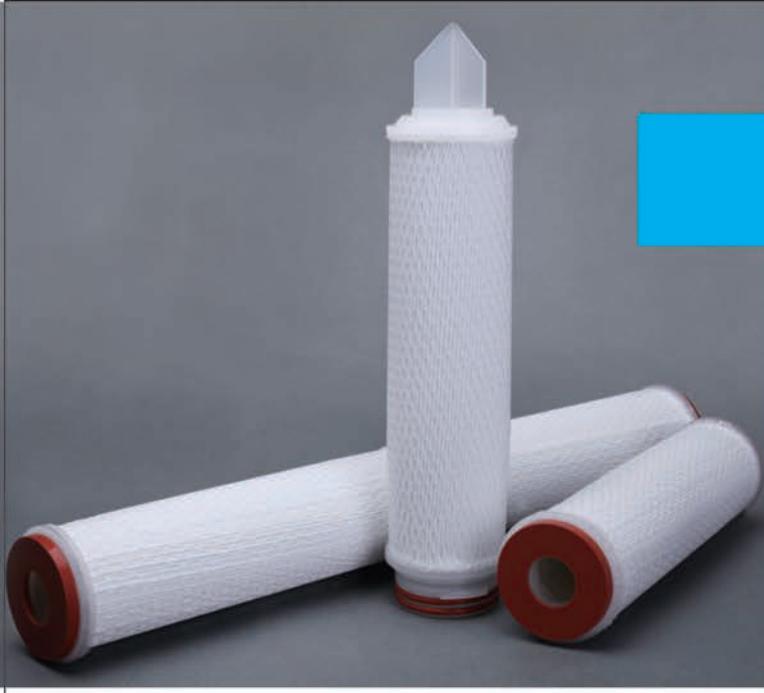
- Higher water flow rate and longer service life
- Large filtration area, pleated cartridge, reduce the numbers of filters required
- Excellent compatibility with various process liquids
- Single open end filter, easy to change-out
- Available in a wide range of removal ratings

TYPICAL APPLICATIONS

- Wet cleaning process in Thin Film Transistor Liquid Crystal Display (TFT LCD) manufacturing
- Semiconductor or other electronic industrial processes water purification
- Large volume of clarification and sterile filtration in Food&beverage industry
- High pressure and flow rate water filtration in pharmaceutical and chemical industry

TYPICAL WATER FLOW RATE @ 25 °C (10")





MP SERIES Pleated Filter Cartridge

SPECIFICATIONS

Materials Of Construction	Filter Media	Polypropylene/Glasss fiber
	Support Layers	Polypropylene
	Micron Rating	0.45, 1.0, 3.0, 5.0, 10.0um
	Inner Core	Polypropylene
	Outer Cage	Polypropylene Mesh Net
	End Cap	Polypropylene
	Seal Method	Thermal Bonded, No Adhesives
	O-Rings/Gaskets	Silicone, Nitrile, EPDM, Viton
	Filtration Efficiency	≥ 95%
Cartridge Dimensions	Outer Diameter	65mm(2.5")
	Inner Diameter	33mm(1.30")
	Length(based on DOE End Cap)	10"- 254mm, 20"- 508mm, 30"-762 mm, 40"- 1016mm
	Filtration Area(m ²)	0.6 m ² per 10"
Operating conditions	Normal Operating Temperature	Up to 55°C (131 °F)
	Max.Operating Temperature.	80°C (176 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Normal Flow direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F)
	PH Value Compatibility	1-13
Cartridge Safety	Sterilization	Not Recommended
	Endotoxin	< 0.25 EU/ml
	Extractables	0.03g / 10"

FEATURES AND BENEFITS

- Outer support is PP mesh net.
- Economical choice for water prefiltration
- Polypropylene and Glasss Fiber filter medias for option
- Low pressure drop and high flow capacity
- Single piece construction for length over 20inch

TYPICAL APPLICATIONS

- Prefiltration in water treatment
- Clarification for waste water process system
- R.O. prefiltration in electronic industry
- Solvents, plating solutions filtration
- Coating, paints and inks



FEATURES AND BENEFITS

- Capsule filters are kind of self contained, ready to use, disposable filters
- Made up of polypropylene cage and pleated membrane filter inside by thermal bonding, free of adhesives, binders and other chemicals
- Available with a wide range of connectors and filter medias for options to meet various filtration requirements
- Ideal for small batch prefiltration and final filtration of liquids or gas in laboratory
- Fully integrity tested before release from manufacture

TYPICAL APPLICATIONS

- Digital inks, paintings
- Small injection and tissue cultures in pharmaceutical industry
- Corrosive liquids/solvents filtration in chemical industry
- Photoresist, acids, etc in electronic industry
- Gas/Air sterile filtration
- Laboratory solutions

FILTER MEDIA AND PORE SIZE AVAILABLE

Filter Media	Pore Size(μm)
PES	0.10, 0.20, 0.45, 0.65 μm
PP	0.10, 0.20, 0.45, 1.00, 3.00, 5.00, 10.0 μm
PTFE	0.10, 0.20, 0.45, 1.00 μm
NYLON66	0.10, 0.20, 0.45, 0.65, 1.00 μm
PVDF (Hydrophilic)	0.10, 0.20, 0.45, 1.00 μm

SPECIFICATIONS

Materials Of Construction	Filter Media	PP/PES/PVDF/PTFE/Nylon Membranes for Options
	Support Layers	Polypropylene
	Inner Core	Polypropylene
	Outer Cage, End Cap	Polypropylene
Cartridge Dimensions	Outer Diameter	65mm(2.5")
	Length	2.5", 5"
	Connectors	1/4"MNPT; 1/2"MNPT; 9/16" hose barb; 1.5" Tri Clamp; 1/4"compression joint
	Filtration Area(m ²)	0.14 m ² to 0.28 m ²
Operating Conditions	Normal Operating Temperature	Up to 60°C (140 °F)
	Max.operating Temperature.	80°C (176 °F) at $\Delta P \geq 1.0$ bar (14.5psi)
	Normal Flow Direction	4.2 bar (60.9 psi) at 25°C (77 °F)
	Reverse Flow direction	2.1 bar (30.5psi) at 25°C (77 °F).
	Sterilization	Autoclave sterilization 30 minutes, Gamma-irradiation

►►► Sus Filter Housing





TS Series Stainless Steel Single Cartridge Clamp Filter Housings are designed with T-Bar clamp closure for easy operation and quick cartridge change-out.

The clamp closure provides better sealing and enables the housings to withstand higher operating pressure.

The housings accept cartridge sizes in 5" 10" 20" and 30" with various end cap styles (Single Open End and Double Open End) and therefore it has become the ideal choices for many applications.

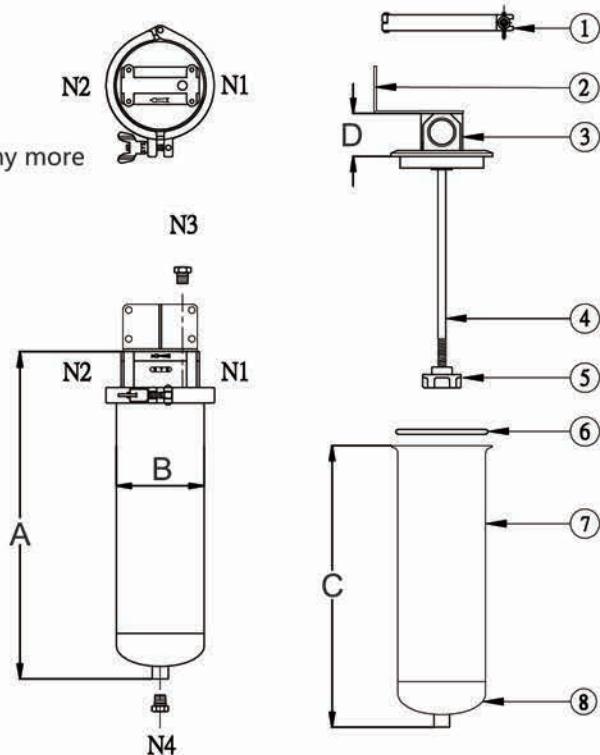
Applications

Pre RO, Chemicals, Electronics, Laboratory Facilities and many more

Specifications

Material: SUS304, SUS316, SUS316L
 Porting: $\frac{3}{4}$ " – 1" NPT
 O-Ring: EPDM-Viton
 Surface: Electrolyze and others
 Operating Pressure: 100 PSI
 Design Temperature: 100°C

Model	A	B	C	D
T0.5	270	106	215	52
T1	400	106	345	52
T2	650	106	595	52
T3	900	106	845	52



Ordering Guide

Model	No.Of Cartridge	Length	Material Of Construction	Inlet/Outlet Size	Connction
TS	1=1PCS	0.5-5" 1 – 10" 2 – 20" 3 – 30"	304SS- SUS304 316SS- SUS316	06 – $\frac{3}{4}$ " 1 – 1"	FNPT-FN

Example: TS-1-304SS-06FN



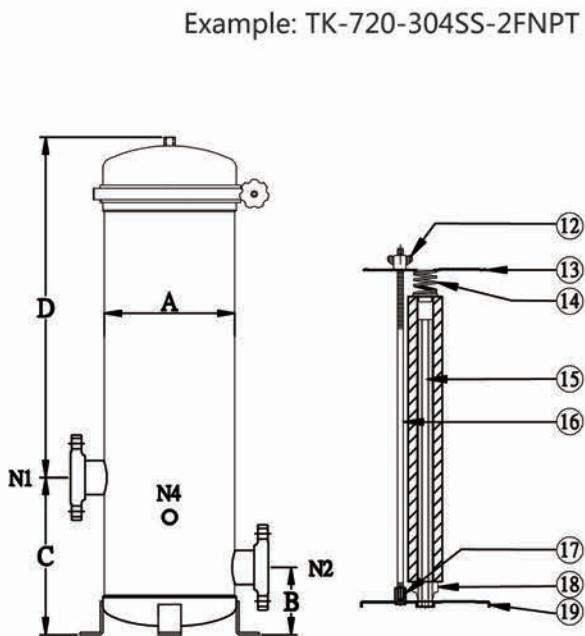
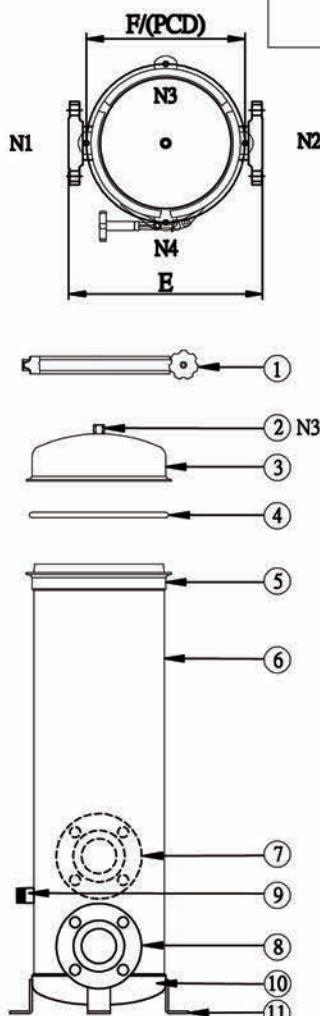
TK Series Stainless Steel Cartridge Filter Housings are manufactured by high quality workmanship. Clamp closure makes filter change-out quick and easy while ensuring good sealing, preventing liquid leakage. The housings can accommodate different end cap styles of filter cartridges in either DOE or SOE, providing economic and efficient alternatives of filtration processes.

Applications

Pre RO, Chemicals, Electronics, Cooling Water Filtration and many more

Ordering Guide

Model	No.Of Cartridge	Length	Material Of Construction	Inlet/Outlet Size	Connnection
TK	3 = 3pcs 5 = 5pcs 7 = 7pcs	10 - 10" 20 - 20" 30 - 30" 40 - 40"	304SS- SUS304 315SS- SUS316 316LSS- SUS316L	1 - 1" 1.5 - 1.5" 2 - 2" 2.5 - 2.5" 3 - 3" 4 - 4"	FN-FNPT MN-MNPT B-BSP AF-ANSI Flange JF-JIS Flange DN-DIN Flange



NO	Description
1	Clamp
2	Port Vent
3	Top Cover
4	O-Ring
5	Flange
6	Shell
7	Port Inlet
8	Port Outlet
9	Port Drain
10	Head
11	Leg Support
12	Nut
13	Cartridge Squeeze Plate
14	Springs
15	Cartridge Aligning Rod
16	Screw Rod
17	Cartridge Bowl
18	Nut
19	Cartridge Support Plate

Model	A	B	C	D	E	F/PCD	M3/HR	GPM	Weight	Volume
TK3~4-10"	Φ180	120	280	345	300	Φ236	3-4	15-20	25KG	14L
TK3~4-20"	Φ180	120	280	610	300	Φ236	6-8	30-40	30KG	21L
TK3~4-30"	Φ180	120	280	865	300	Φ236	9-12	45-60	35KG	28L
TK5~7-10"	Φ232	120	280	345	352	Φ288	5-7	25-35	30KG	23L
TK5~7-20"	Φ232	120	280	610	352	Φ288	10-14	50-70	35KG	34L
TK5~7-30"	Φ232	120	280	865	352	Φ288	15-21	75-105	40KG	45L
TK5~7-40"	Φ232	120	280	1120	352	Φ288	20-28	100-140	46KG	55L

TKA/TKH Series High Pressure Filter Cartridge Housings

TKA/TKH Series Stainless Steel Cartridge Filter Housings are suitable for a wide variety of filtration applications which require high temperature and operating pressure.

The swing bolts closure make filter change-out quick and easy. The housings can accommodate different end cap styles of filter cartridges in either DOE or SOE, providing economic and efficient alternatives of filtration processes.

Applications

Pre RO, Chemicals, Electronics, Cooling Water Filtration and many more



Specifications

Material: SUS304, SUS316, SUS316L
Porting: 1/2" – 3" NPT, Flange and other special sizes

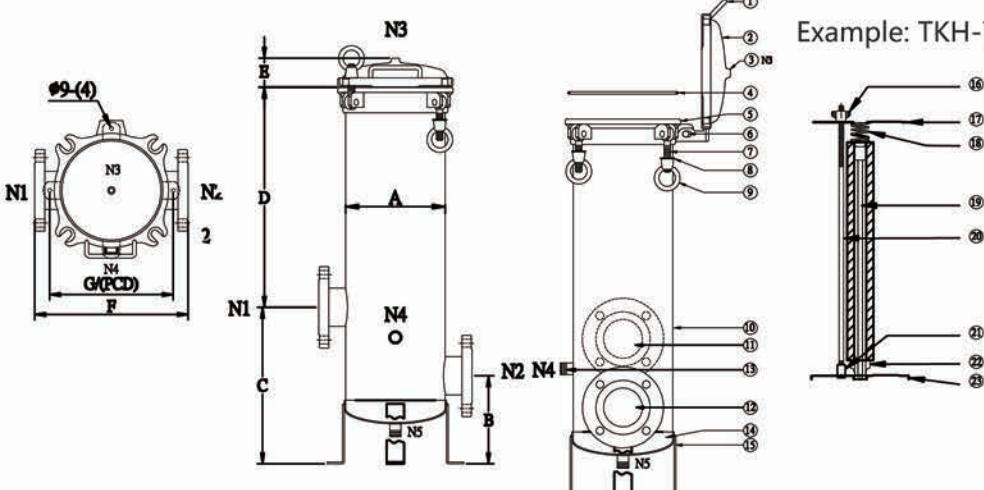
O-Ring: EPDM-Viton
Surface: Electrolyze and others
Design Pressure: 225 PSI
Operating Pressure: 150 PSI
Design Temperature: 100°C
Operating Temperature: 75°C



Ordering Guide

Model	No. Of Cartridge	Length	Material Of Construction	Inlet/Outlet Size	Connection
TKA	1 = 1pcs	10~10" 20~20" 30~30" 40~40"	304SS- SUS304 315SS- SUS316 316LSS- SUS316L	04 – 1/2" 06 – 3/4" 1 – 1" 1.5 – 1 1/2"	FN-FNPT MN-MNPT B-BSP AF-ANSI Flange JF-JIS Flange DN-DIN Flange
	3 = 3pcs			1-1"	
	5 = 5pcs			1.5-1.5"	
	7 = 7pcs			2-2" 2.5-2.5" 3-3" 4-4"	

Example: TKH-7-30-304SS-2FN



NO	Description
1	Handle
2	Top Cover
3	Port Vent
4	O-Ring
5	Flange
6	Spindle
7	Eye Bolt
8	Washer
9	Eye Nut
10	Shell
11	Port Inlet
12	Port Outlet
13	Port Drain
14	Bottom Cover
15	Leg Support
16	Nut
17	Pressure Plate
18	Springs
19	Cartridge Post
20	Center Post
21	Pedestal
22	Nut
23	Cartridge Support Plate

Model	A	B	C	D	E	F	G/PCD	GPM	Weight	Volume
TKH3~4-10"	Φ181	120	280	253	55	300	Φ266	15-20	25KG	18L
TKH3~4-20"	Φ181	120	280	508	55	300	Φ266	30-40	30KG	27L
TKH3~4-30"	Φ181	120	280	763	55	300	Φ266	45-60	35KG	36L
TKH5~7-10"	Φ232	120	280	253	65	358	Φ288	25-35	30KG	23L
TKH5~7-20"	Φ232	120	280	508	65	358	Φ288	50-70	35KG	34L
TKH5~7-30"	Φ232	120	280	763	65	358	Φ288	75-105	40KG	45L
TKH5~7-40"	Φ232	120	280	1018	65	358	Φ288	100-140	46KG	55L

DL Series High Flow Rate Multi Cartridge Filter Housings



DL Series Stainless Steel High Flow Multi Cartridge Filter Housings are designed for processes requiring significant flow rate. The hand crank makes top cover removal and element change out quick and easy. These housings are suitable for a wide range of liquid processes and is able to accept different cartridge end cap styles in DOE and SOE.

Applications

Pre RO, Chemicals, Electronics, Cooling Water Filtration and many more

Specifications

Material: SUS304, SUS316, SUS316L

Porting: 1/2"-3" NPT, Flange and other special sizes

O Ring: EPDM-Viton

Surface: Electrolyze and others

Design Pressure: 225 PSI

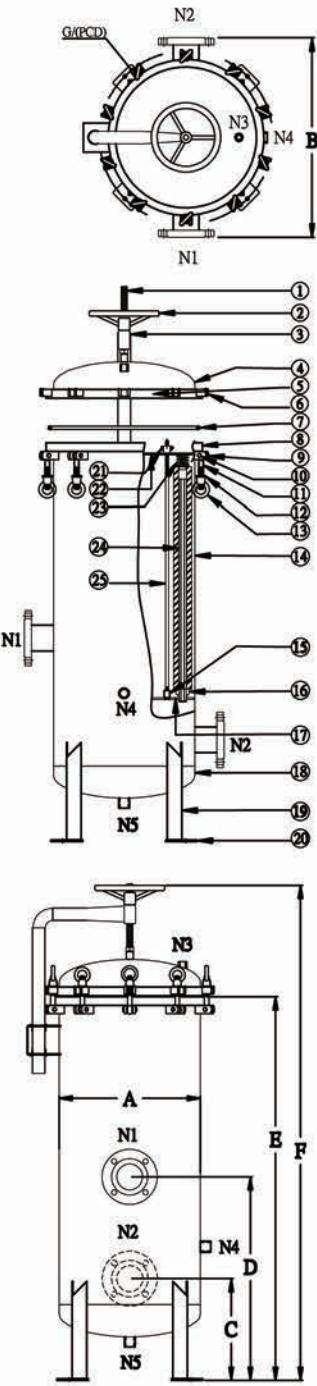
Operating Pressure: 150 PSI

Design Temperature: 100°C

Operating Temperature: 75°C

NO	NAME	MATERIAL	QTY	NO	NAME	MATERIAL	QTY
1	Screw	SUS 304	1	14	Shell	SUS 316	1
2	Turntable	SUS 304	1	15	Nut	SUS 316	1
3	Hanger	SUS 304	1	16	Pedestal	SUS 316	25
4	Top Cover	SUS 316	1	17	Cartridge Plate	SUS 316	1
5	Top Cover Flange	SUS 316	1	18	Bottom Cover	SUS 316	1
6	EYE Nut Socket	SUS 316	10	19	Support	SUS 304	4
7	O-Ring	EPDM	1	20	Pressure Plate	SUS 304	4
8	Shell Flange	SUS 316	1	21	Nut	SUS 316	4
9	Eye Bolt Sicket	SUS 304	10	22	Support Plate	SUS 316	1
10	Spindle	SUS 304	10	23	Springs	SUS 316	25
11	Eye Bolt	SUS 304	10	24	Cartridgde Post	SUS 316	25
12	Washer	SUS 304	10	25	Partitions	SUS 316	4
13	Eye Nut	SUS 304	10				

MODEL	FILTER HEIGHT	N1/N2	N4/N5	A	B	C	D	E	F	G(PCD)	M3/Hr	GPM	WEIGHT	VOLUME
8-12	30"	2"~4"	1" PT-F	Φ300	500	350	700	1320	1690	Φ410	24~36	120~180	77Kg	89L
	40"	2"~4"	1" PT-F	Φ300	500	350	700	1570	1940	Φ410	32~48	160~240	85Kg	107L
13-20	30"	2"~4"	1" PT-F	Φ406	606	350	700	1320	1700	Φ516	39~60	195~300	105Kg	165L
	40"	2"~4"	1" PT-F	Φ406	606	350	700	1570	1950	Φ516	52~80	260~400	125Kg	198L
21-28	30"	3"~4"	1" PT-F	Φ486	686	350	700	1320	1705	Φ596	63~84	315~420	120Kg	239L
	40"	3"~4"	1" PT-F	Φ486	686	350	700	1570	1955	Φ596	84~112	420~560	145Kg	286L
29~36	30"	3"~4"	1" PT-F	Φ560	760	350	700	1320	1730	Φ704	87~108	435~540	190Kg	327L
	40"	3"~6"	1" PT-F	Φ560	760	400	800	1630	2040	Φ704	116~138	580~720	225Kg	389L
37~46	30"	4"~6"	1" PT-F	Φ600	800	400	800	1380	1790	Φ744	111~138	555~690	200Kg	401L
	40"	4"~6"	1" PT-F	Φ600	800	400	800	1630	2050	Φ744	148~184	740~920	230Kg	460L
47~56	30"	4"~6"	1" PT-F	Φ650	850	450	850	1430	1885	Φ800	141~168	705~840	242Kg	484L
	40"	4"~6"	1" PT-F	Φ650	850	450	850	1680	2135	Φ800	188~224	940~1120	280Kg	567L
57~81	30"	4"~6"	11/2 PT-F	Φ762	962	500	950	1480	2130	Φ960	171~243	855~1215	365Kg	665L
	40"	4"~6"	11/2 PT-F	Φ762	962	500	950	1730	2380	Φ960	228~324	1140~1620	408Kg	802L
82~95	30"	6"~8"	2" PT-F	Φ900	1100	550	1000	1630	2330	Φ1100	246~285	1230~1425	687Kg	1042L
	40"	6"~8"	2" PT-F	Φ900	1100	550	1000	1880	2580	Φ1100	328~380	1640~1900	715Kg	1201L
96~135	30"	8"~10"	2" PT-F	Φ1000	1200	600	1100	1710	2420	Φ1200	288~405	1440~2025	791Kg	1350L
	40"	8"~10"	2" PT-F	Φ1000	1200	600	1100	1960	2670	Φ1200	384~540	1920~2700	832Kg	1546L
136~155	30"	10"~12"	2" PT-F	Φ1100	1300	650	1250	1760	2475	Φ1300	408~465	2040~2325	1046Kg	1580L
	40"	10"~12"	2" PT-F	Φ1100	1300	650	1250	2010	2725	Φ1300	544~620	2720~3100	1102Kg	1817L
156~173	30"	10"~12"	2" PT-F	Φ1200	1400	650	1250	1760	2480	Φ1400	468~692	2340~2595	1188Kg	1955L
	40"	10"~12"	2" PT-F	Φ1200	1400	650	1250	2010	2730	Φ1400	624~692	3120~3460	1247Kg	2238L



BFL1~4 Series Low Pressure Filter Bag Housings

BFL Series Stainless Steel Bag Filter Housings are the suitable as an economic model for commercial and general filtration with the features of light-weight and low pressure drop. The clamp feature make closure quick and easy. Height of the housing is adjustable by the design of mounting legs.

Applications

Ink & Paints Filtration, Chemical, Waste Water Treatment, Pre RO/DI, Electronics & many more

Specifications

Material: SUS304, SUS316, SUS316L

Porting: 1/2"-3" NPT, Flange and other special sizes

O-Ring: EPDM-Viton

Surface: Electrolyze and others

Design Pressure: 150 PSI

Operating Pressure: 100 PSI

Design Temperature: 100°C

Operating Temperature: 75°C

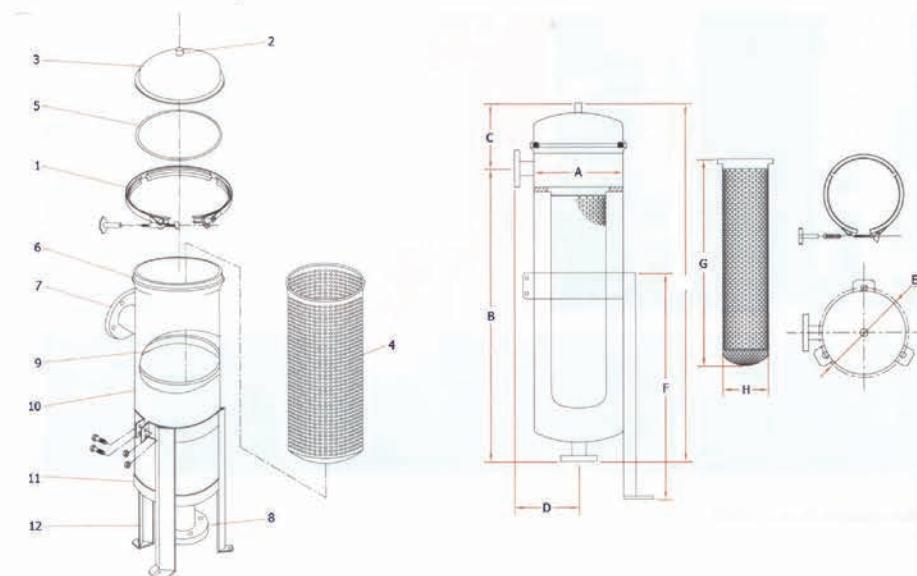


Ordering Information

Model	Bag Size	Material Of Construction	Inlet/Outlet Size	Connnection
BHL	1 – Size 1 2 – Size 2 3 – Size 3 4 – Size 4	304SS- SUS304 316SS- SUS316 316LSS- SUS316L	1 – 1" 1.5 – 1.5" 2 – 2" 2.5 – 2.5" 3 – 3" 4 – 4"	FN- FNPT MN – MNPT B - BSP AF-ANSI Flange JF- JIS Flange DF – DIN Flange

Example: BFL1-304SS-2FN

NO	Description
1	Handle
2	Top Cover
3	Vent
4	O-Ring
5	Flange
6	Spindle
7	EYE Nut
8	Filter Bag Plate
9	Sheel
10	Port Inlet/Outlet
11	End Plate
12	Leg Support



Model	A	B	C	D	E	F	G	H	GPM	Weight	Volume
BFL-1	Φ232	550	190	176	Φ323	520	350	Φ171.5	90	21KG	27L
BFL-2	Φ232	1005	190	176	Φ323	520	730	Φ171.5	200	26KG	46L
BFL-3	Φ180	360	178	150	Φ252	350	200	Φ97	20	14KG	11L
BFL-4	Φ180	495	178	150	Φ252	350	310	Φ97	45	15KG	14L



BFH Series Stainless Steel Bag Filter Housings are manufactured by heavy duty stainless steel with superior chemical resistance and high pressure endurance.

Height of the housing is adjustable by the design of the mounting-legs module, offering flexible installation.

The swing bolts sitting around the top cover provide convenient top cover removal, better sealing performance and enhanced safety.

Applications

Ink & Paints Filtration, Chemical, Waste Water Treatment, Pre RO, Electronics & many more

Specifications

Material: SUS304, SUS316, SUS316L

Porting: 1/2"-3" NPT, Flange and other special sizes

O-Ring: EPDM-Viton

Surface: Electrolyze and others

Design Pressure: 225 PSI

Operating Pressure: 150 PSI

Design Temperature: 100°C

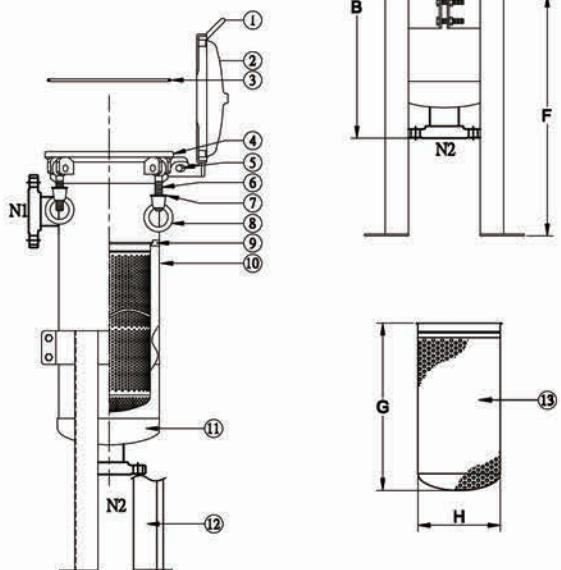
Operating Temperature: 75°C

Ordering Information

Model	Bag Size	Material Of Construction	Inlet/Outlet Size	Connection
BFH	1-Size 1 2-Size 2 3-Size 3 4-Size 4	304SS- SUS304 316SS- SUS316 316LSS-SUS316L	1- 1" 1.5- 1.5" 2- 2" 2.5- 2.5" 3- 3" 4- 4"	FN- FNPT MN- MNPT B- BSP AF-ANSI Flange JF- JIS Flange DF- DIN Flange

Example: BFH-2-304SS-2FN

NO	NAME	MATERIAL	QTY	NO	NAME	MATERIAL	QTY
1	Handle	SUS 304	1	8	EYE Nut	SUS 304	4
2	Top Cover	SUS 316	1	9	Filter Bag Plate	SUS 316	1
3	O-Ring	EPDM	1	10	Sheel	SUS 316	1
4	Flange	SUS 316	1	11	Bottom Cover	SUS 316	1
5	Spindle	SUS 304	5	12	Leg Support	SUS 304	1
6	EYE Bolt	SUS 304	4	13	Basket	SUS 316	1
7	Washer	SUS 304	4				



Model	A	B	C	D	E	F	G	H	GPM	Weight	Volume
BFL-1	Φ216	550	125	65	168	504	350	Φ171.5	90	34KG	23L
BFL-2	Φ216	930	125	65	168	704	730	Φ171.5	200	43KG	37L
BFL-3	Φ139.8	350	105	40	135	350	200	Φ97	20	18KG	6.3L
BFL-4	Φ139.8	450	105	40	135	350	310	Φ97	45	21KG	7.8L

BFU1~2 Series Top Loading Filter Bag Housings

BFU Series Stainless Steel Top Loading Bag Filter Housings are manufactured by heavy duty stainless steel to meet the most demanding applications. Height of the housing is adjustable by the design of the mounting-legs module, offering flexible installation. The swing bolts sitting around the top cover provide convenient top cover removal, better sealing performance and withstand higher pressure.

Applications

Ink & Paints Filtration, Chemical, Waste Water Treatment, Pre RO, Electronics & many more



Specifications

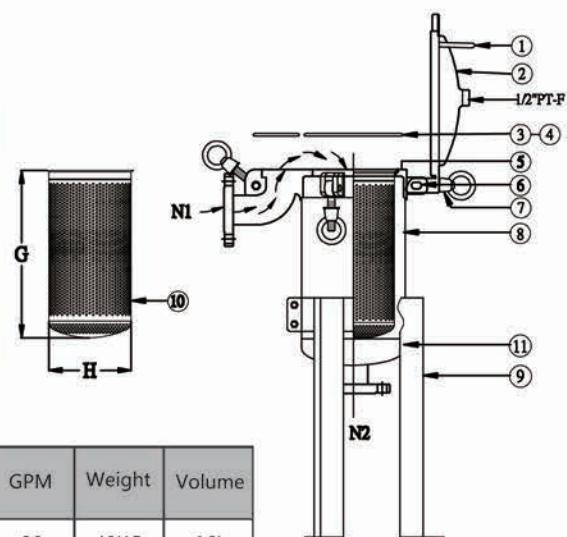
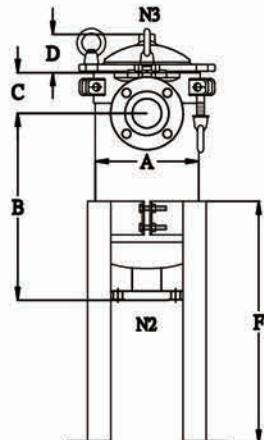
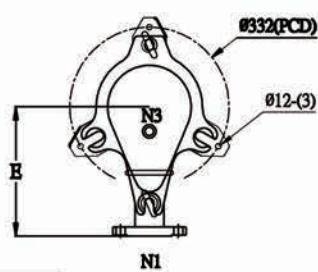
Material: SUS304, SUS316, SUS316L
 Porting: 2" – 2½" Flange and other special sizes
 O-Ring: EPDM-Viton
 Surface: Electrolyze and others
 Design Pressure: 225 PSI
 Operating Pressure: 150 PSI
 Design Temperature: 100°C
 Operating Temperature: 75°C

Ordering Information

Model	Bag Size	Material Of Construction	Inlet/Outlet Size	Connection
BFU	1- Size 1 2- Size 2	304SS- SUS304 316SS- SUS316 316LSS-SUS316L	2- 2 2.5- 2.5	FN- FNPT MN- MNPT B- BSP AF- ANSI Flange JF- JIS Flange DF- DIN Flange

Example: BFU-1-304SS-2FN

NO	NAME	MATERIAL	QTY	NO	NAME	MATERIAL	QTY
1	Handle	SUS 304	1	7	EYE Bolt	SUS 304	4
2	Top Cover	SUS 304	1	8	Sheel	SUS 304	1
3	O-Ring	EPDM	1	9	Leg Support	SUS 304	1
4	O-Ring	EPDM	1	10	BASKET	SUS 304	1
5	Flange	SUS 304	1	11	Bottom Cover	SUS 304	1
6	Spindle	SUS 304	4				



Model	Inlet/Outlet	A	B	C	D	E	F	G	GPM	Weight	Volume
BFU-1	2"	Φ216	385	88	82	343	504	350	90	40KG	16L
BFU-2	2"	Φ216	735	88	82	343	704	730	200	48KG	31L
BFU-1	2½"	Φ216	385	118	82	317	504	350	90	40KG	16L
BFU-2	2½"	Φ216	735	118	82	317	704	730	200	48KG	31L



BFM1~3 Series Stainless Steel High Flow Multi Bags Filter Housings are manufactured by heavy-duty stainless steel components to meet demanding applications. With multi-rounds of filter bags, the housing is able to handle big capacity and meanwhile maintaining high filtration performance. The hand crank makes operation convenient and safe. The swing bolt closure enable excellent sealing and is able to withstand high pressure. We have exactly what your flow demands require.

Applications

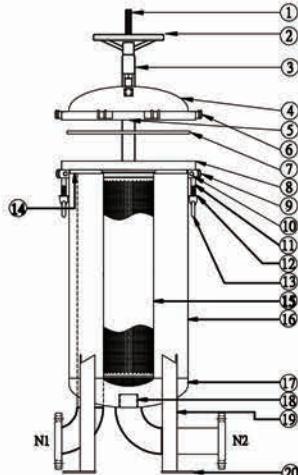
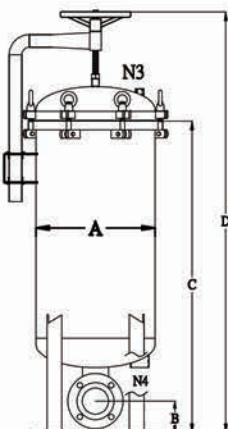
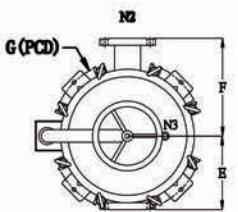
Ink & Paint Filtration, Chemicals, Petrochemical, Electronics, Waste Water Treatment, Pre RO and many more

Features

Completely cleanable,easy cleaning access
Single gasket lid seal
Positive bag sealing

Specifications

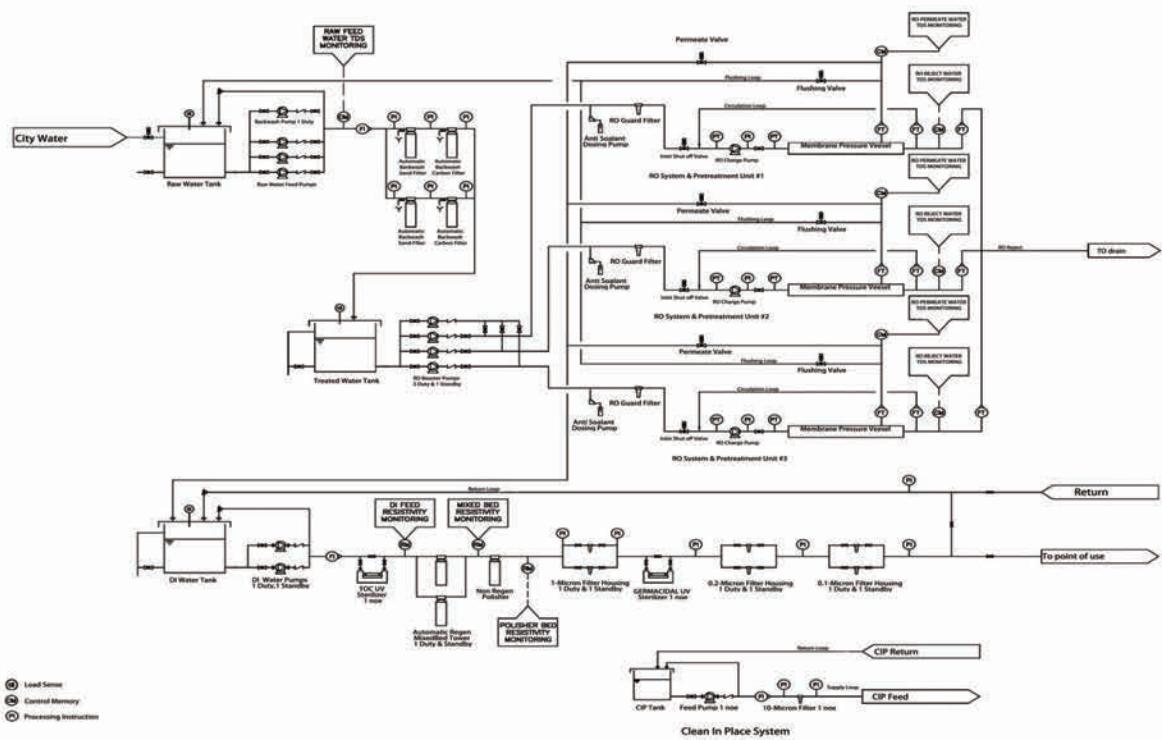
Material: SUS304, SUS316, SUS316L
Porting: 1"-12" NPT, Flange and other special sizes
O-Ring: EPDM-Viton
Surface: Acid-Washings, Electrolyze and others
Bag Specifications: Filter Bag No.2
Design Pressure: 225 PSI
Operating Pressure: 150 PSI
Design Temperature: 100°C
Operating Temperature: 75°C



NO	Description
1	Screw
2	Turntable
3	Hanger
4	Port Vent
5	Top Cover
6	Top Cover Flange
7	Eye Nut Socket
8	O-Ring
9	Sheel Flange
10	Eye Bolt Socket
11	Spindle
12	Eye Bolt
13	Washer
14	Eye Nut
15	Shell
16	Basket
17	Bottom Cover
18	Port Drain
19	Support
20	Port(Inlet/Outlet)
21	Filter Bag Plate

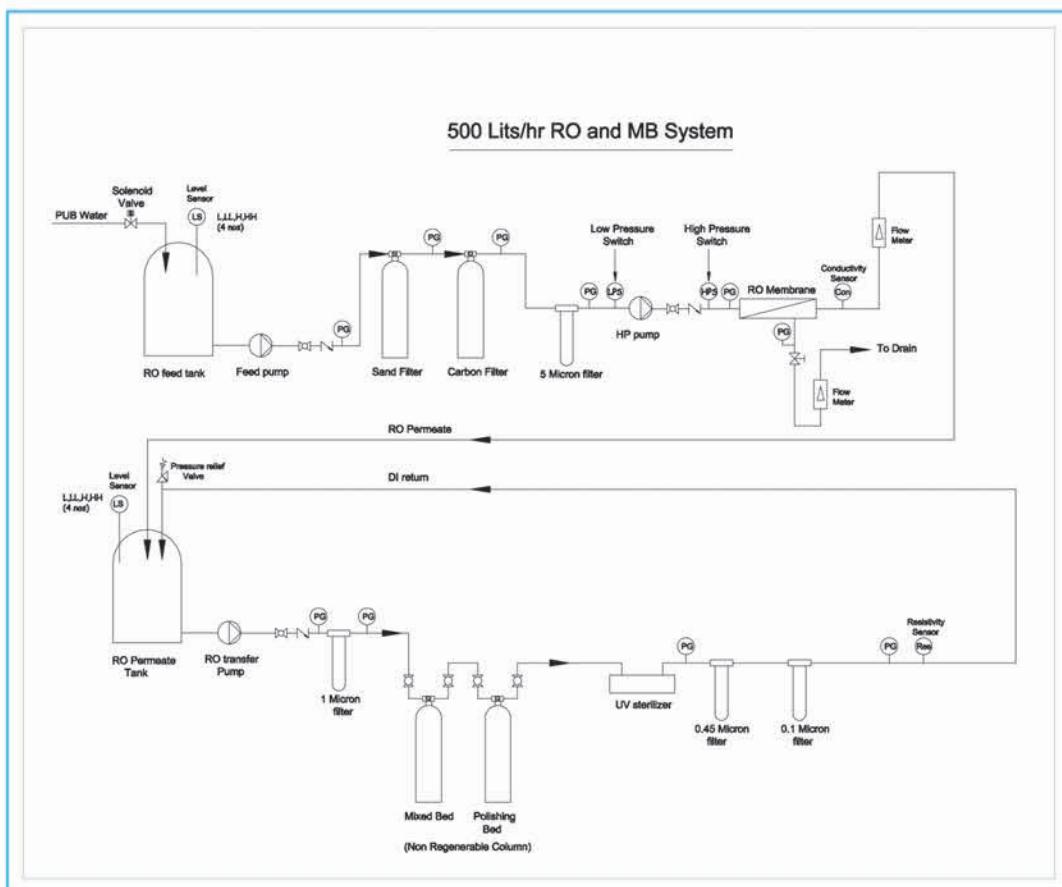
Model	No.Bags	A m/m	B m/m	C m/m	D m/m	E m/m	F m/m	G(PCD) m/m	M3/Hr	Weight	Volume
400-3F	2	Φ406	400	1075	1260	1640	606	Φ516	90	97KG	116L
400-4F	2	Φ406	400	1090	1300	1670	606	Φ516	90	102KG	117L
600-3F	3	Φ486	400	1075	1260	1640	686	Φ596	135	125KG	188L
600-4F	3	Φ486	400	1090	1300	1680	686	Φ596	135	130KG	189L
800-3F	4	Φ508	400	1075	1260	1645	708	Φ618	180	161KG	244L
800-4F	4	Φ508	400	1090	1300	1685	708	Φ618	180	169KG	245L
800-6F	4	Φ508	450	1145	1380	1765	708	Φ618	180	206KG	279L
1000-3F	5	Φ560	450	1125	1310	1710	760	Φ740	225	160KG	244L
1000-4F	5	Φ560	450	1140	1350	1750	760	Φ704	225	165KG	278L
1000-6F	5	Φ560	450	1245	1380	1780	760	Φ704	225	206KG	246L
1200-3F	6	Φ600	450	1125	1310	1715	800	Φ744	270	198KG	277L

Ultrapure Water Treatment Solutions

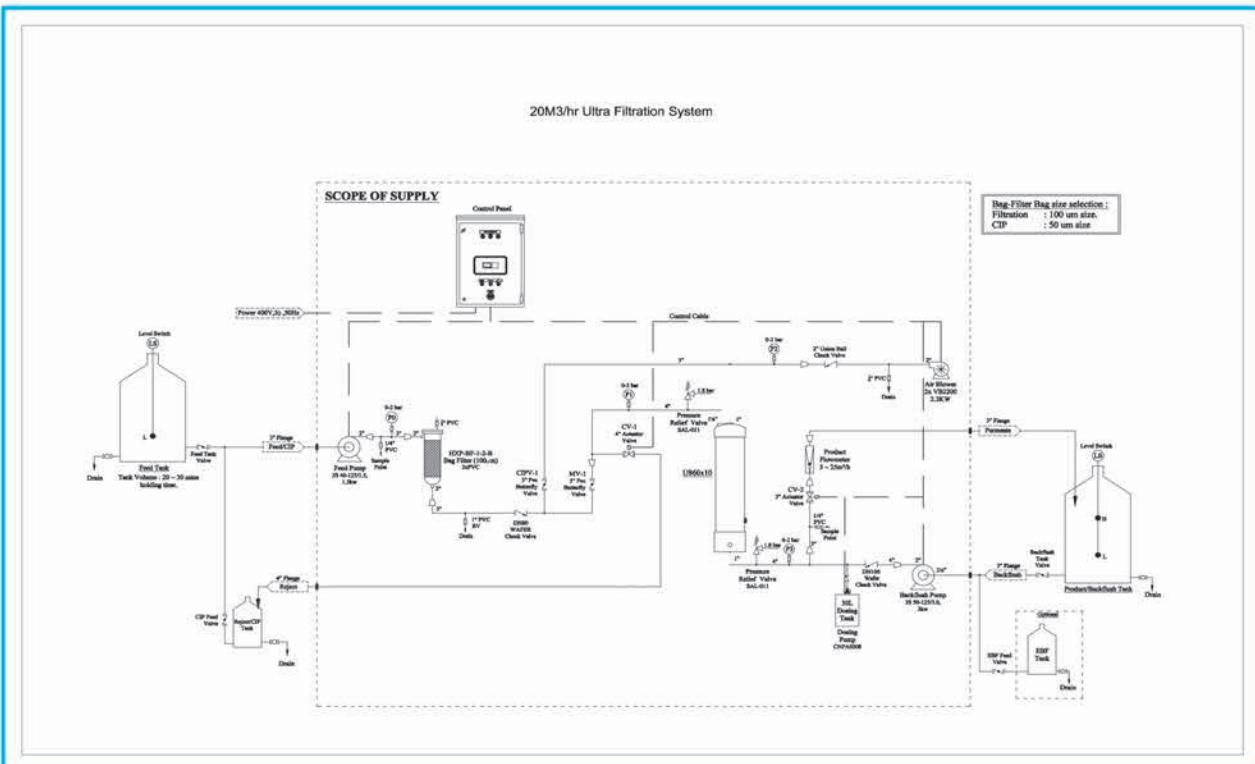


- Load Sense
- Control Memory
- Processing Instructions

Ultrapure Water Treatment Solutions



Ultrapure Water Treatment Solutions



Waste Water Treatment Solutions

