

PLACON

We treat Water Well...



Here is the Answer For All Your Filtration Needs....



PPW SERIES DEPTH WOUND FILTER CARTRIDGE

PPW series wound filter cartridge is widely used for removing coarse particles from process fluid. It can remove a wide range of particle sizes efficiently and economically. The graded pore structure design make the filter cartridge has high dirt holding capacity at low pressure drop. As using high grade filter media and high strength core, it can withstand severe operating and handling conditions.

FEATURES AND BENEFITS

- Micron ratings from 0.5 to 100 Micron
- Polypropylene or Bleached Cotton media available for a wide range of applications
- Polypropylene or stainless steel center core available
- The media and core are made of FDA compliant materials.
- High dirt holding capacity
- Non-foaming and no fabric release
- Low pressure drop at high flow rate

SPECIFICATIONS

● Filter Media	● Core Material	● Micron Rating	● Dimensions
Polypropylene Bleached Cotton Fiber Glass	Polypropylene PP / Stainless Steel Stainless Steel	0.5, 1, 5, 10, 20, 50, 75 and 100 Micron (Nominal)	1 – 1/16" (27mm) I.D. x 2 – 1/2" (63.5mm) OD Length: 9-3/4", 10", 19-3/4", 20", 30", 40"
● Temperature			
Polypropylene Media : 90 C (194 F) with polypropylene core			
Bleached Cotton Media : 120 C (250 F) with Stainless steel core			

TYPICAL APPLICATIONS

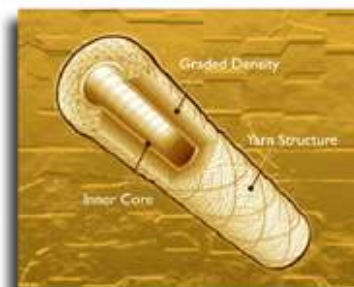
- ☐ Food & Beverage
- ☐ RO Pre-filtration
- ☐ Potable water
- ☐ Photographic solutions
- ☐ Plating solutions
- ☐ Organic solvents

CONFIGURATION

- PPW – Series
- 05 – Micron Rating
- 10" – Length
- C – Optional Cotton Media
- S – Optional Stainless Steel core



PP String



PLACON AC FILTER CARTRIDGES - PAC SERIES

Activated Carbon, a porous substance with the strongest physical adsorption forces, has the highest volume of adsorbing porosity of any material known to mankind. By carbonization and activation, activated carbon can be made from many substances containing high carbon content such as coal, wood, bamboo and coconut shells. Activated carbon displays its performance by the features of specific surface area, adsorption capability, mechanical strength, thermal and chemical stability. With the superior characteristics of activated carbon, activated carbon filters are widely applied in industrial process and civil use as the most efficient method of removing odors, chlorine, volatile organic compounds (VOC), colors, tastes and other contaminants from fluids.

ACTIVATED CARBON FILTER CARTRIDGES - PAC SERIES

Placon PAC cartridges are dual-purpose filters, which provide depth filtration efficacy as well as adsorption capability by its sandwich design. The outer layer acts as a pre filter to intercept gels and large particles that can cause premature carbon filter plugging. The activated carbon in the middle layer features high adsorption performance with low pressure drop. The inner layer acts as a final filter to remove fine particles and unloading carbon then consequently ensures the constant quality of filtrates. To optimize the adsorption efficiency, the customized formulas are available for special orders by different ratios of activated carbon types in various granularity and density. With our technical support, Placon PAC cartridges are specified to fulfill your application requirements.



APPLICATIONS

- PCB Solutions
- Plating and coating solutions
- Photographic Chemicals
- Industrial water Treatment
- Pre filtration of reverse osmosis
- Chlorine and VOC removal
- Tastes, odors and organic pigments reduction
- Chlorinated compounds reduction

MATERIALS OF CONSTRUCTIONS

Filter Media : Coconut shell based activated carbon
 Inner Core : Polypropylene inner Layer
 Over Polypropylene core
 Outer Layer : Polypropylene
 External Netting : Polyethylene
 End Caps : Polypropylene

OPERATING CONDITIONS

Maximum Operating Temperature : 52 C (125 F)
 Maximum Differential Pressure : 5.17 Bar (75 psid)
 Recommended change-out Differential Pressure: 3.10 Bar (45 psid)
 Collapse Differential Pressure: 6.90 Bar (100 psid)



DIMENSIONS

ID = 26mm x OD 66mm

Gasket included
 9 7/8" (251mm), 10" (254mm), 20" (508mm), 30" (762mm)

GASKET MATERIAL :

B= Buna-N
 E= EPDM (Standard)
 S= Silicone
 V= Viton

PLACON*We want Water Well...***PLACON AIR FILTER PRESSURE REGULATOR****SPECIFICATIONS**

Pressure
 Max Inlet : 250 psi
 Outlet Range : 0-30, 0-60 Psi
 0-100, 0-150 Psi

FILTRATION

Standard : 5 Microns
 Optional : 10, 15, 25, 50
 Element : Sintered Bronze
 (Optional - Plastic)

CONNECTION

Standard : 1/4" NPT (F)
 Optional : 1/8", 3/8", 1/2" NPT/ BSP

MATERIALS

Body : Pressure die cast Aluminum
 (Optional - Stainless Steel)
 Diaphragm : Nylon Impregnated
 Neoprene
 Value Spring : Neoprene Moulded on
 Stainless Steel Stem
 Drain Cock : Stainless Steel
 Bowl Capacity : 130 CC (Approx)
 Weight : 800 Grams (Approx)
 Temperature : Up to 80°C

**PLACON AIR FILTER RELAY (DOUBLE ACTING)****SPECIFICATIONS**

Pressure
 Max Inlet : 250 psi
 Cut off Range : 5 - 100 Psi

CONNECTIONS

Standard : 1/8" BSP (F)
 Optional : 1/4", 3/8" NPT/BSP

MATERIALS

Body : Aluminum
 (Optional - Stainless Steel)
 Diaphragm : Nylon impregnated Neoprene
 (Optional - Viton)
 Valve Spring : Stainless Steel
 O' ring : Viton
 Weight : 900 grams (Approx)
 Temperature : Up to 80° C

PLACON AIR FILTER REGULATOR**Specifications**

Pressure
 Max Inlet : 250 psi
 Cut off Range : 5 - 100 psi

Connection
 Standard : 1/4" NPT (F)
 Optional : 1/8", 3/8" NPT/ BSP

Materials

Body : Pressure die cast aluminum
 (Optional - Stainless Steel)
 Diaphragm : Nylon impregnated Neoprene

Value Spring : Stainless Steel
 Valve Seat : Neoprene
 Weight : 750 Grams (Approx)
 Temperature : Up to 80°C



PLACON POLYPROPYLENE(PP) FELT FILTER BAGS

PP filter bag is made of polypropylene filter through felting, quality inspection, cutting, welding or seaming processes. PP filter bag is a depth type filter, it traps contaminants in different depths to accomplish the filtration requirements. The irregular fiber structure of the depth type filter media not only greatly reduces the filter bed effect but also captures soft and unsymmetrical contamination particles to improve filtration performance. The depth type filter has a larger voids volume to reduce resistance from filter media and increase the filtrate flow, which provides consistent efficiency and long service life. Produced of pure polypropylene, PP filter bag presents excellent chemical compatibility to make PP depth type filter bag a best choice for filtration of high polar liquids containing acids, alkalis, salts, or liquids carrying more contaminants.



PHYSICAL AND CHEMICAL CHARACTERISTICS

Bag Material	Solvent	Strong Acid	Weak Acid	Strong Alkali	Weak Alkali	Chemical Property	Max.Temp.
Polypropylene	4	1	1	1	1	Slightly Hydrophilic, Hydrophobic	93(C)

1 Excellent, 2 Very Good 3 Good 4 Fair 5 Poor (It is not recommended to use when graded fair or poor.)
The above gradings are for general chemicals. Please contact us for specific requirements.

TECHNICAL DATA

Initial ΔP (*) : 0.14 Bar/ 2psid
Change- Out ΔP : 1.40 Bar / 20 psid
Max. ΔP : 2.40 Bar / 35 psid
Recommended Temp : Below 71C/ 160 F
Max. Operating Temp : 93 C / 200 F

MICRON RATING

Bag Type	Micron Ratings Available (μm)
PPFB	1, 5, 10, 22, 50, 75, 100 Microns

(*) : Initial ΔP Depends on different micron rating, liquid viscosity and flow rate, which shall be calculated according to specific conditions when choosing the filtration system.

HIGH EFFICIENCY BAGS

High efficiency bags are offered for those critical applications when high efficiency combined with high dirt-holding capacity is required.

Polypropylene materials are processed into microfibers with diameters of 1-10 microns or more. These fibers are converted into filter material. Microfiber media are covered with spun-bonded polypropylene.

STRAINER BAGS

Woven monofilament materials are offered in nylon with micron ratings of 50-800 and efficiencies from 75 to 95 percent. The materials are cleanable and reusable.

Available in Polypropylene, Polyester and Nylon Mono Filament mesh Filter Bags.



PLACON HYDRAULIC FILTERS

"PLACON" offers elements for Fluid Power, Fluid Processing, Aeronautics, Power Plants, and Cement -Ceramic Industries. Our aim for all Market Segment is the same : to remove

Contamination be it particulate, liquid or gaseous & we seek to do this with products that afford ease & economy of use, safety & efficiency to our customers.

EXPERTISE comes from knowledge gained during past experience of so many years being in the field. This has resulted in precision design and manufacturing high standard filter elements for imported or indigenous brands. Quality product based on in-depth research to determine the best filtering media. The quality starts with input raw material and passes long sequence of quality checks and finally to the inspection of finished products. FLEXIBILITY is "PLACON" 's strength, which is capable of finding the right solution to the customer's problem by knowledge and in-house manufacturing facilities.



Particles of 10 micron and smaller have been conclusively proven to be the major cause of component failure, unscheduled down time & costly repairs. Proper selection of media can greatly extend the useful life of components.

FILTERING MEDIAS

- Paper Media :** Resin Impregnated Cellulose Paper Media, Depth Nominal Filtration Available in 5, 10, 25, 35 Nominal Micron Ratings
- Glass Fiber Media:** Segregated Depth Filtration-High Dirt Holding Capacity, Inorganic Micro-fine Glass Fiber, Available in 3, 5, 10, 12, 20, 25 Absolute Micron Rating.
- Stainless Steel Mesh:** Nominal Surface Filtration, Woven Or Twilled SS Wire Mesh, Available in 5, 10, 25, 40, 60, 100, 150, 200 & Above Microns
- Synthetic Media :** Woven and Non-woven Polyester, Polypropylene, Felt, Sintered Bronze - SS on Request.
- Suction Strainers :** We are manufacturing variety of Suction Strainers normally of 100, 149- Micron SS Mesh or as per requirement, for different flow rates.
- Oil Filter Elements:** Inline, Low-High Pressure, Duplex, Tank Top Mounted, Return-line filter elements for Hydraulic-Lubricating oil applications for stationery and mobile applications.
- Air & Gas Filter :** Special Paper, Polypropylene, Felt and other media's are used to filter Air or Gas.
- Air & Oil Separator:** Combination or Boro-silicate Glass Fiber & Synthetic Media are used to Separate Oil From air either of Air Compressor or Vacuum Pump.
- Fuel Filters :** Special Fuel Paper is used for Diesel, Petrol, RFO, Naphtha & Furnace Oil of Engines, Furnaces & Boilers. Over & above this we can develop any special filter element of any shape and size which requires selection, combination of Media's & Technical Expertise.

PLACON MESHTYPE FILTER CARTRIDGE - REUSABLE / WASHABLE

There is an obvious need of an effective reusable pre-filter in almost every filtration application where there is a need to control Increasing cost of disposable type filter cartridges due to high contamination loads.

These Washable Net Filter Cartridges effectively removes particle ranging from 5 micron to 100 micron, and useful as pre-filter for collection of gross contaminants.

This cartridge reduces consumption of expensive disposable type filter cartridges when used as Pre-filter and also serves as stand alone filter for a wide variety of application.

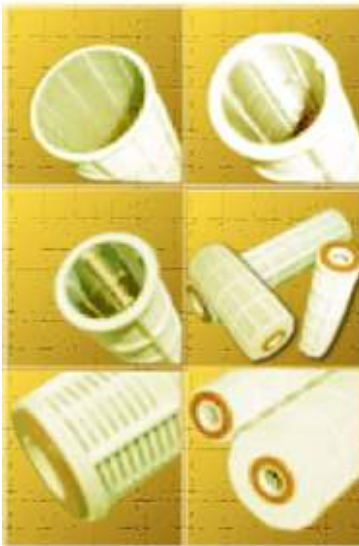
SPECIFICATION

- Material of construction (Inner/outer cage): Polypropylene, Nylon
- Material of construction (Media): Stainless Steel, Nylon
- Size: 2.5" OD x 10" Length
 - 2.5" OD x 20" Length
 - 4.5" OD x 10" Length
 - 4.5" OD x 20" Length
- Seal Material: Vinton, Silicon, Buna-N
- Maximum Recommended Flow rate: 2500 liters/hr to 6000 liters/hr (Depends upon cartridge selection)
- Maximum Differential Pressure (Clean): 0.1 kg/cm²
- Maximum Differential Pressure (Dirty): 2.5 kg/cm²
- Micron Rating: 5 Micron onwards

FEATURES AND BENEFITS

- Washable type filter media
- Reusable/ Regnerable media
- Excellent Chemical compatibility
- Higher Flow Rates
- Available in a wide variety of micron rating and sizes

TYPICAL APPLICATION



- Water Filtration
- Additional Pre-filtration to RO Membrane to reduce cartridge change-out cost
- Discharge water
- Process Water
- Coolants for machine tools
- Cutting oils
- Inks
- Dyes and Intermediates to reduce maintenance in RO Plants and for clean product water
- Photographic Solutions
- Sea water filtration
- DM Water filtration
- Domestic water filtration
- Bore well water filtration
- Paints

PPS SERIES POLYPROPYLENE MELT BLOWN FILTER CARTRIDGE

PPS series filter cartridges are made of 100% polypropylene melt blown filter media making them suitable for a wide variety of applications. They are manufactured through a special process that thermally bonds pure polypropylene micro fibers with lower density at the outside surface and progressively higher density toward the center. This graded pore structure is efficient capture of a wide range of particle sizes through the entire depth of the media.



Graded density PPS series filters traps contaminants throughout the entire cross section for maximized dirt holding and longer filter life

FEATURES AND BENEFITS

- Graded pore structure provide maximum dirt loading
- 100% polypropylene construction
- Compliant with FDA regulation 21 CFR requirement for food and beverage contact
- Non-Foaming, low TOC content and free from binders, lubricants or anti-static agents
- High flow rate, low pressure drop and long service life
- Economic alternative for general purpose filtration
- Easy disposal – Incinerators to non-volatile trace ash

PPS series filter cartridges are available from 0.5Micron to 100 Micron rating, 9.75" to 40" length and 2 – 1/2" to 4-1/2" outer diameter.

TYPICAL APPLICATION

- ☐ Food & Beverage
- ☐ RO Pre-filtration
- ☐ Potable water
- ☐ Photographic solutions
- ☐ Plating solutions
- ☐ Organic solvents

PPS SERIES SPECIFICATIONS

Filter Media : Pure Polypropylene
 Micron Ratings : 0.5, 1, 5, 10, 20, 50, 75, 100 micron
 Dimensions (Nominal) : 63.5 OD x ID 27 mm x 254 to 1016 mm
 Maximum Differential Pr. : 35 psid (2.41 bar) at 25 C (77 F)
 20 psid (1.38 bar) at 52 C (125 F)
 Recommended Change-Out Differential Pressure : 15 psid (1.03 bar)
 O ring or Gasket Materials: Silicone, EPDM Polypropylene

END CAP CONFIGURATION

No Symbol = Double open end industrial, cut ends
 PPE = Double open end, Polyethylene gasket seal
 PM3=SOE flat closed end, external 222 O-rings
 PM8=SOE fin end, external 222 O-rings



PSS HEAVY DUTY SWING BOLT /CLAMP CLOSURE MULTI- CARTRIDGE FILTER HOUSINGS

PSS series Multi-Cartridge Filter Housings are swing bolt closure designed for heavy duty industrial grade filtration. They are made of durable SS 304 or SS 316 brushed & electro-polished with operating pressure up to 150 psig. These housings are compatible RO Plants, Paints, Water Treatment Plants, Waste water recycling, petrochemical and plating solutions.

FEATURES AND BENEFITS

- 304 & 316 Stainless Steel brushed / Electro-polished material construction for maximum corrosion resistance in a Non-Code filter housing
- Swing bolt closure design with 150 psig (10.3 bar) maximum operating pressure assures secure sealing and easy cartridge change out
- Suitable for high temperature service up to 93 C (200 F)
- Flow rates from 180 GPM to 300 GPM
- Ideal for : Water, Paints, Photographic solutions, food and beverage products, petrochemicals, pharmaceuticals, plating solutions.
- All models available with vent and drains for easy cartridge change and maintenance
- Accept 27 rounds filter cartridge in length 10", 20", 30" or 40" from variety band
- Accept cartridges with Double Open End (DOE)
Optional for SOE 222 O-ring and 22y O-ring fin end Configuration
- Standard shell O-ring to be Buna-N
Optional : Silicon, viton and EPRM



PLACON PLEATED FILTER CARTRIDGES - PV SERIES

Placon PPV series filter cartridges are typical filters containing nominally-rated, all polypropylene pleated media for fine filtration and high efficiency widely applied in various industrial filtration processes. The design of multi-layer filter intensifies the cartridge structure to maintain a consistent filtration; the depth type main filter traps the contaminants in different depths to give large dirt holding capacity; the structure with optimized pleat height and density provides the lowest possible pressure drop and maximum service life. Placon PPV series pleated filter cartridges are entirely polypropylene of thermoplastically bonded support constructions which eliminate risk of extractable from sealing materials and offer virtually universal chemical compatibility. Placon PPV series filter cartridges are available in different micron ratings to match the flow, pressure drop, and retention requirements of most liquid and gas micron filtration applications.



APPLICATIONS

- ☐ Acid and base solutions
- ☐ Beer, vintages, Syrups, Juices and water
- ☐ Photographic chemicals & Solutions
- ☐ Paints, dyes and jet printer inks
- ☐ Plating and Coating solutions
- ☐ Coolants, pesticides and ploymers
- ☐ Etchants for semiconductor and PC board
- ☐ Solvents for electronics
- ☐ Liquid and solvents for LCD manufacturing
- ☐ DI and RO water pretreatment
- ☐ Toiletries, Shampoo, Creams and Lotions
- ☐ Compressed air and gases

SPECIFICATION PLEATED CARTRIDGES

PPV Media Material	Cartridges Length (Nominal Length)	Connection		Gasket
PKV: PVDF	10 = 10"	A = 222 FLAT	I = 222/3 FIN	B = Buna - N
PNV: PA (Nylon)	20 = 20"	B = 222 FIN	J = 215 FIN	E = EDPM
PPV: PP	30 = 30"	C = 226/2 FLAT	K = 120 FLAT	F = Teflon-FEP
PTV: PTFE	40 = 40"	D = 226/2 FIN	L = 120 DOE	S = Silicone
UV : PESU		E = SOE/L	M = 020 FLAT	T = PTFE
		F = DOE/L	N = 216/218 FIN	V = Viton
		G = SOE/S	O = 222/S FLAT	
		H = DOE/S	P = 222/S FIN	

SPECIFICATION (10 INCH LENGTH)

Micron Rating µm	Number of Pleats & Layers	Filtration Area m ² / ft ²
0.1	88/5	0.49 / 4.9
0.2	88/5	0.49 / 4.9
0.3	88/5	0.49 / 4.9
0.45	88/5	0.49 / 4.9
0.65	88/5	0.49 / 4.9
0.80	88/5	0.49 / 4.9
1.00	113/4	0.59 / 6.3
2.00	113/4	0.59 / 6.3
3.00	113/4	0.59 / 6.3
5.00	113/4	0.59 / 6.3
10.00	113/4	0.59 / 6.3
20.00	150/3	0.79 / 8.5
30.00	150/3	0.79 / 8.5
40.00	150/3	0.79 / 8.5

OPERATING CONDITIONS

- Max Operating Temperature : 82 OC (180 OF) @ 0.7 Bar (10 psid)
- Max Differential Pressure : 4.14 Bar (60 psid) @ 25 OC (77 OF)
- 3.10 Bar (45 psid) @ 60 OC (140 OF)
- Max Differential Reverse Pressure. : 3.45 Bar (50 psid) @ 25 OC (77 OF)
- 2.76 Bar (40 psid) @ 60 OC (140 OF)
- Recommended Change-out Diff. Pr.: 2.4 Bar (35 psid)

MATERIALS OF CONSTRUCTION

Structural Components	:	Polypropylene
Filter Media	:	Polypropylene
Support Materials	:	Polypropylene
Sealing Technology	:	Thermal Bonding



PLACON PLEATED WOVEN WIRE MESH FILTER CARTRIDGES

MICRON RATING / STRUCTURE

Pore size	Nominal Micron Rating	Absolute Micron Rating	Number of layers
002	2 Micron	5 Micron	3 layers
005	5 Micron	12 Micron	3 layers
010	10 Micron	25 Micron	3 layers
025	25 Micron	40 Micron	3 layers
050	50 Micron	75 Micron	3 layers
080	80 Micron	120 Micron	1 layer
100	100 Micron	125 Micron	1 layer

MATERIAL OF CONSTRUCTION

Structural Components	:	316 SS
Filter Media	:	316 SS
Support Materials	:	316 SS
Connection	:	G = SOE/S H = DOE/S
Gasket Material	:	B= Buna-N E= EPDM T= PTFE (220 C) V= Viton

OPERATING CONDITIONS

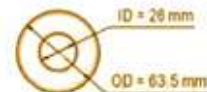
Max. Operating Temperature	: 650 C (1200 F)
Max. Operating Pressure	: 10 Bar (145 Psid)
Max. Differential Pressure	: 5 Bar (72.5 psid)
Max. Differential Reverse Pressure	: 2 Bar (29 Psid)

DIMENSIONS

ID = 26mm x OD = 63.5mm

L-Gasket Included	:	9 3/4" (248mm)
		10" (254 mm)
		20" (508mm)
		30" (762mm)

• Dimensions:



L (Gasket Included) :

09S	= 9 1/4" (245 mm)
09	= 9 1/4" (248 mm)
10S	= 9 1/4" (251 mm)
10	= 10" (254 mm)
20	= 20" (508 mm)
30	= 30" (762 mm)

PLACON POLYPROPYLENE FILTER HOUSINGS

- The Polypropylene filter Housing are made of ruffed reinforced polypropylene. They are recommended for low flow rates to higher flow rates and wide range of applications including residential, commercial and industrial.
- Available in 8", 10" 20" Standard models and 10", 20" Jumbo models for higher flow rates.
- Optional Pressure - relief/bleed button on inlet side of cap.
- Thick walls for increased strength
- Leak Proof sealing with top - seated Buna - N 'O' ring
- Available with clear SAN - Styrene Acrylonitrile / Poly carbonate - PC and opaque (Blue - Black) models.
- All Housings have been tested and passed the hydrostatic leak and burst pressure to ensure consistence safe performance.

BLUE BLACK / SAN FILTER HOUSING

- Blue Body with Black Cap
- White Body with White Cap
- Clear Body (SAN/PC) with White Cap.
- Available in 8", 10" 20" Sizes
- Pressure relief / bleed button on inlet
- Side & Cap..
- 1/4", 1/2", 3/4" & 1" in/out connection
- Maximum Flow rates up to
- 8 lpm - 8" Size, 10 lpm - 10" Size
- 40 lpm - 20" size
- Maximum temperature 70°C and
- Operating Pressure up to 6kg/cm²



BIG JUMBO FILTER HOUSING

- Large Capacity housing suitable for high flow applications
- Available in 10" & 20" size to meet your needs - 4.5 DOE Filter Cartridge.
- 1 1/2" in/ out connection.,
- Maximum Flow Rate 50 lpm for 10", 100 lpm for 20"
- Pressure relief / bleed button on inlet/outlet side of cap.

MULTIPLE PP FILTER HOUSING

- Available Ivory colour with MS Stand
- Maximum Temperature, 70°C maximum pressure rating - 5 Kg/cm².
- Suitable for 10" x 6 Nos, 10 x 12 Nos, 20" x 6 Nos, 20" x 12 Nos, 30" x 6 Nos and 30 x 12 Nos.
- 1 1/2" to 3" Inlet/Outlet connection.



PLACON POROUS PLASTICS

PLACON offer Porous Sintered Filter Elements in various shapes and sizes Viz., Discs, Domes, and Hollow Cylinders for filtration of Water, Air and Chemicals. The separation mechanism of Filter Elements is primarily due to deep-bed filtration. The materials of construction are inert polymer alloys to suit the operational conditions like fluid medium, temperature and pressure as well as high chemical resistance. The Filter Elements are available in pore sizes ranging from 1-250 microns. [Nominal Rating] We will also offer and supply Filter cylinders in any other dimensions on request.

FILTRAPORE is a free-sintered material that produces porous plastic products with excellent filtration efficiency of fine solid particulate combined with excellent flow ability of liquids and gases. Controlled particle size distribution and a precise temperature cycle are used to produce a wide range of interconnected cell structures and specific pore size ranges. These pore structures are designed and controlled to function in a variety of applications such as filtering, wicking, diffusing or venting gases, and sound muffling.

FEATURES AND BENEFITS

- Lower Cost
- Inexpensive Tooling
- Repeatable Performance - controlled porosity
- Chemically Resistant - to most acids, bases, solvents and hydrocarbons
- Excellent Corrosion Resistance
- High Purity - FDA/USDA approved resins
- High Strength, Light Weight - friendly to assembly requirements
- Dual Filtration Capabilities - acts as both a surface and depth filter
- Hydrophilic, Hydrophobic, or Self-Sealing Properties

FILTRAPORE is naturally hydrophobic, however, the material can be treated to produce hydrophilic properties allowing wicking of aqueous solutions. In addition, special formulations of FILTRAPORE can act as a self-sealing material in the presence of aqueous solutions.

Porous plastics retain most of the physical properties of their solid counterparts, but also offer a unique set of properties. The unique "tortuous filtration path" of the material produces high filtration efficiency combining the properties of both surface and depth filters. Porous plastics have excellent resiliency; high physical strength and lightweight providing a rugged easily handled part. Filtration efficiencies of 99.8% can be achieved.

APPLICATIONS

- Absorbent Wicking
- Battery Frits (Vents)
- Catheter Vents
- Microphone Windscreens
- DNA Sampling Filters
- Industrial Filters
- Aeration
- Biomedical Filters
- Chromatography & SPE Filters
- Pipette Tip Filters
- Flow Control Devices
- Ink Rollers
- Applicators
- Blood Serum Filters
- Lubrication Reservoirs
- Pneumatic Mufflers
- Fluidizing Sheet
- Liquid Reservoirs

- Fragrance Release Reservoirs
- Non-Mechanical Self-Sealing Valves and Parts
- Waste & Freshwater Treatment Filter Support Plates
- Water Filtration & Purification CO₂ Diffusers and Bubbler



PLACON PLEATED FILTER CARTRIDGES (WITHOUT CAGE)

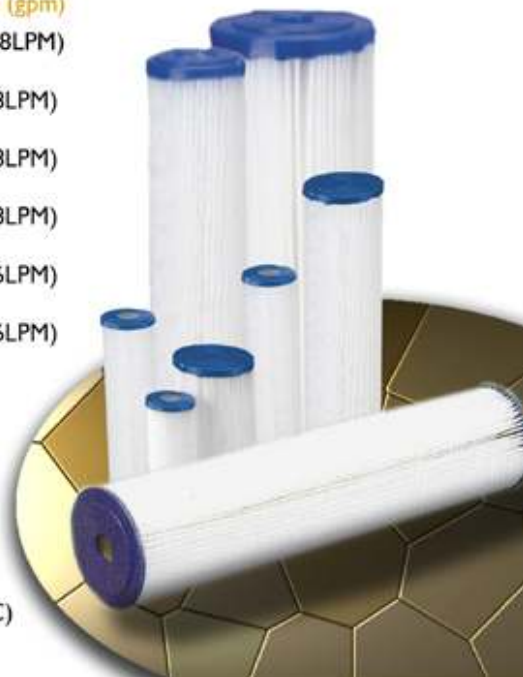
- Pleated design maximizes dirt-holding capacity. Durable polypropylene media resists bacterial attack. Suitable for municipal or well water applications. Nominal 1,5,10 & 30-micron rating.
- Pleated cartridges are manufactured from a durable polypropylene media. They are resistant to bacterial attack and compatible with a wide range of chemicals.
- The high porosity of the media provides higher flow rates and dirt holding capacity, while maintaining extremely low pressure drop.
- The media is pleated around a polypropylene core for added strength and the ends are immersed in a thermo-setting vinyl plastisol. Embedding and sealing each end of the pleat block in this fashion fuses the three components together forming a unitized end cap and gasket.
- The overlap seam is sonically welded to reduce internal bypass, improving filtration efficiency.
- Pleated cartridges provide nominal 1,5,10 & 30-micron filtration and are highly effective at reducing medium/fine particles in a variety of residential, commercial and industrial applications.

CARTRIDGE SPECIFICATIONS AND PERFORMANCE DATA

Maximum Dimensions	Micron Rating (nominal)	Initial Δ P (psi) @ Flow Rate (gpm)
2-5/8" x 9-3/4" (67 mm x 248mm)	1	(<0.1 BAR@ 38LPM)
2-5/8" x 9-3/4" (67 mm x 248mm)	5	(<0.1 BAR@ 38LPM)
2-5/8" x 9-3/4" (67 mm x 248mm)	10	(<0.1 BAR@ 38LPM)
2-5/8" x 20" (67 mm x 508mm)	5	(<0.1 BAR@ 38LPM)
4-1/2" x 9-3/4" (114 mm x 248mm)	5	(<0.1 BAR@ 76LPM)
4-1/2" x 20" (114 mm x 508mm)	5	(<0.1 BAR@ 76LPM)

MATERIAL OF CONSTRUCTION

- Filter Media : Non-Woven Polypropylene
- End Caps : Vinyl Plastisol
- Core : Polypropylene
- Netting : Polyethylene (PP30 only)
- Temperature Rating : 40°F to 145°F (4.4°C to 62.8°C)



PLACON SINTERED SS FILTER CARTRIDGES

Placon's porous stainless steel media is called Sintered SS Filter Cartridges. The standard material is used 316L grade stainless steel. For some applications Grade 304L is used. Stainless steel has excellent temperature resistance and can be used up to 500C in air or 650C in a reducing atmosphere.

Waterflow (m3/min/m2) at pressure (mbar)	SRM10U 2 mm	SRM20U 2 mm	SRM30U 2 mm	SRM40U 2 mm	SRM50U 2 mm
69	0.25	0.46	0.66	0.83	4.4
138	0.5	0.91	1.00	1.66	8.87
207	0.75	1.37	1.99	2.49	13.33



TYPICAL APPLICATIONS

- Steam Filtration.
- Compressed air Filtration.
- Corrosive and aggressive liquids and gases.
- Prefiltration to micro, ultra and reverse osmosis processes.
- Catalyst recovery and removal in the chemical, petrochemical, cosmetic and pharmaceutical industries.
- Cryogenic Fluids.
- Uranium hexane fluoride gas filtration in the nuclear industry.
- Filtration of molten Polyester for the manufacture of polyester film.
- Filtration of molten polymers for the man made fiber industry.
- Caprolactam catalyst recovery used in the manufacture of nylon.
- Sparging (not a filtration application) of gases including aeration, carbonation, hydrogenation for the chemical,

FEATURES AND BENEFITS

- Designed for strength to provide low whole life costs.
- Cleanable in situ or off line to provide low whole life costs.
- Regenerable by back flushing to provide low whole life costs.
- Large product range providing a solution for most aggressive liquid and gas applications.
- It is no seam weld. This reduces corrosion and extends life expectancy. NO SEAM WELD MEANS EXCELLENT CAKE RELEASE ESSENTIAL FOR EFFECTIVE RECOVERY.
- Excellent media uniformity that means the whole surface area is utilized for filtration. There are no dead spots.
- Manufactured without the use of binders, solvents and lubricants preventing contamination.
- Excellent surface filtration performance. The media is smooth WHICH MEANS EXCELLENT CAKE RELEASE.
- Sintered stainless steel powder or fiber media designed to provide desired filtration efficiency with high permeability and strength.
- Low carbon 316L stainless steel media (either powder or fiber) and materials to provide high corrosion resistance.
- Manufactured by welding under a controlled inert atmosphere to give a clean weld to prevent corrosion and provide a long life.
- Welding controlled to give full penetration at critical joints to provide strength for a long life. These capsules can be cleaned and reused many times to provide low whole life costs.
- Manufactured flat with no distortion to ensure ease of assembly and provide excellent sealing.

PLACON STAINLESS STEEL CARTRIDGE

Metallic filter cartridges are cylindrical filter elements fabricated with ss 304 or 316 mesh fabric. They are available with a plain or pleated (enlarged filter area) outer surface.

Metallic filter cartridges are especially recommended for high temperature and pressure conditions, i.e. as commonly is the case with high viscous liquids. They may be chemically, mechanically or thermally cleaned and are therefore often economical and environmental alternatives to single use cartridges in low solid contaminated liquids.



PROCESS DATA

Differential pressure : 0,1 bar , Bursting pressure : 10 bar
 Max. pressure drop : 2,5 bar (to avoid strong mechanical blocking by solid particles)
 Max. operating temperature : 250°C
 Max. flow rate : 75 l/min *(water/delta P = 0,15 bar/ 9 3/4" filter cartridge)
 Length : 9 3/4" (248 mm) plain + pleated,
 19 1/2" (496 mm) plain, 29 1/4" (744 mm) plain and
 39 1/2" (1000 mm) plain.
 Diameter : O.D. 65 mm - I.D. 27 mm or 36 mm
 MOC : Core and end caps : SS 304 or 316, wire mesh SS 304 or 316
 Gasket Material : Flat gasket : Buna N (max. 150°C), EPDM (max. 175°C),
 FPM (max. 200°C) or PTFE (max. 250°C)

Maximum Differential Pressure

The plain filter element can withstand, without deformation, 20 bar of differential pressure.

The pleated filter element size 9 3/4" (248 mm) can withstand, without deformation to 6 bar of differential pressure. It is good practice to clean or replace the filter elements when the pressure drop reaches 2.5 bar.

Temperature Range

The plain filter element finds application in a range from -50°C to +250°C.

The pleated filter element can be used in the range of temperature listed below depending upon the type of seal between ends and filter media.

- option K (epoxy resin for food use) : -54 to +150°C
- option C (polyvinyl resin for industrial use) : -10 to +95°

Connections

Double open end cartridge (DOE) = standard

R 1" threaded single open end (SOE) = special (option for back washing)

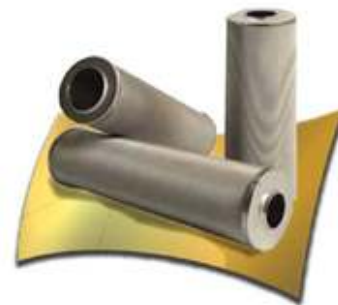
Filter Fineness

10, 25, 50, 80, 100, 140, 200, 250, 300, 400, 500 and 1000 µm

filter Area

plain surface : 9 3/4" cartridge = 0,05 m² (all welded)

pleated surface : 9 3/4" cartridge = 0,15 - 0,20 m²



PLACON SS 316L STERILE FILTER HOUSINGS

PLACON proudly presents its range of SS 316L Sterile Filter Housings. These housings are manufactured from high quality SS316L and are designed for optimum filter performance. It can hold single or multiple filter elements for a wide variation in flow rates. All housings are designed to allow quick cartridge change out with the minimum loss of fluid.

FEATURES AND BENEFIT

The filter housings are secure, leak-free with crevice-free. Mirror polish makes them ideal for hygienic use- important feature for Pharma, Food and Beverage Industries

- Low pressure drop design
- High flow rates
- Positive sealing design
- Easy to install and maintain
- Quick release closures optionally provided in most sizes
- Full range of sizes
- Custom design service
- Multiple or duplex systems available

The standard range is offered in SS316 with BSP inlet/outlet connection but a choice of flanged or triclover and connections are also offered as per client's requirements.

PLACON has always been associated with innovation in the field of filtration and is eager to assist at various stages of design to its customers. We are sure you will find our products to suit filtration requirements and will oblige us with your support whenever you need filtration systems from our standard or custom design range of filtration products.





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