

Inprinta In-line and Last Chance Filters

Since 1991 Inprinta have designed and manufactured a wide range of in-line and last chance filters to offer solutions for inkjet filtration throughout the body of the printer. These self-contained filter assemblies are provided as solutions for all types of inkjet applications from CIJ coding to superwide graphics.

Our filter assemblies are produced from a list of inert materials with minimal extractables to ensure ink will not be contaminated. They are compact to allow fitting in the smallest of printer housing, and come with a varying range of connectors. All our filters are designed and built in the UK and exhibit superior flow characteristics and minimum pressure drop levels which ensure consistent reliable printing performance with maximised printhead protection. Superior materials, design and construction provide the filter with a long service life.

- Filters are pressure tested to ensure complete integrity.
- Materials include: stainless steel, polypropylene, acetal, peek, nylon, PTFE.
- Standard operating temperatures from 0°C to 50°C (32°F to 122°F).
- 6bar (87psi) operating pressure.
- Minimal pressure differential.

Features and Benefits

- Multiple connectors.
- Variable sizes.
- Various colours for simple visual inspection.
- Excellent particle barrier.
- Zero shedding.
- Many filter media options.
- UV and solvent compatible.
- A wide range of micron ratings.

General Introduction

Inprinta in-line and last chance filters are self contained, ready to use, disposable devices. Filter bodies are manufactured from a range of plastics and metals to provide filters that are safe, inert, durable and strong.

High quality filter media will guarantee critical printhead protection down to $1\mu\text{m}$ in fluids. Also within this range of filters are our air filters. These sub-micron barriers will ensure pure filtered air with no risk of liquids or contaminants.

Filtration technology






Filters are manufactured utilising a host of different materials. Polymeric membranes, stainless steel mesh and metal fibre are all offered within the product range. All filters will provide barriers to foreign bodies or aggregates within the ink system. Where air filters are used, hydrophobic membranes of 0.2µm are offered as standard. This ensures dirty air and liquids are cleared from the system.

Strength and Durability

Filter housings are engineered specifically for the stresses on inkjet. High strength plastics, such as peek, and stainless steel housings offered by Inprinta are some of the strongest and most durable in the market. Materials of the highest grade are resistant to all standard solvent and UV fluids and the design and construction will provide a long service life.

Connectors

For the many inkjet systems in the market, we provide a wide range of connectors allowing for quick, simple and clean changeovers. Jaco®, luer and barb connectors are all available in a variety of configurations.

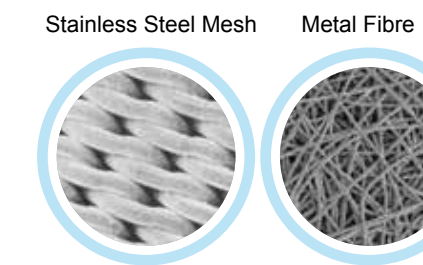
Connector	Inlet/Outlet Styles
	2.6mm, 4.6mm and 6.5mm barb
	7/16" 20 UNF thread
	5/16" 24 UNF thread
	Luer
	3mm and 6mm Jaco®

Filter Efficiency

- Filters have removal efficiencies from 0.2µm to 100µm.
- Filters provide a high dirt holding capacity.
- Filters are manufactured to provide a low differential pressure value.
- Filters rated to 2000 hours.*

Filter Media

A variety of filtration media is offered throughout the range of last chance and in-line filters, this includes; polypropylene, nylon, polyethylene, stainless steel mesh and metal fibre.

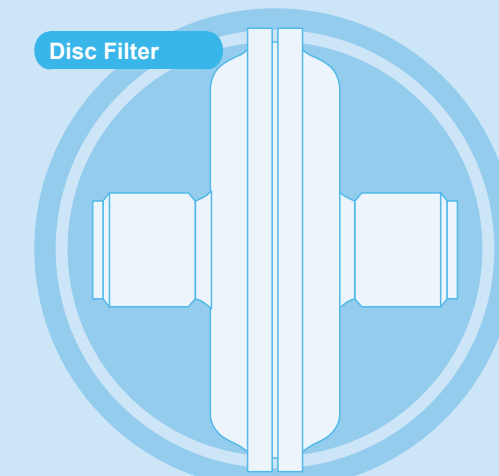
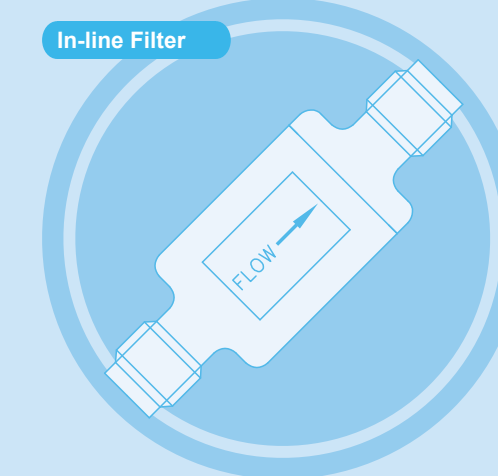
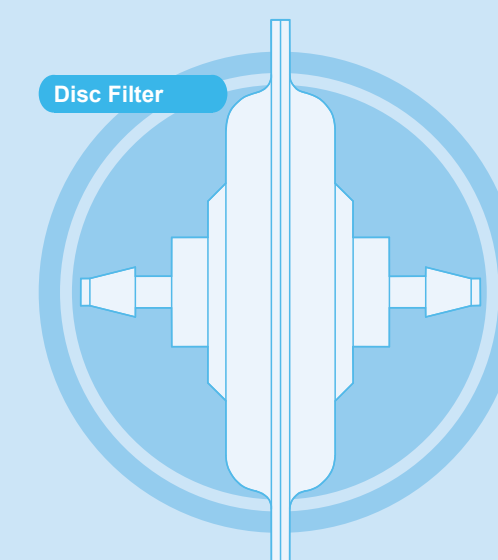


Filtration rating starts at sub 1µm for the most refined liquids and increase up to 100µm. Filters are designed to work efficiently with both dye and pigment based fluids and our filtration media is compatible with all standards inkjet fluids: solvent, UV and water-based. This full product offering gives every conceivable choice to the consumer.

Filter barriers are constructed from high grade materials before being welded into the filter housing to give a fully integrated filter assembly. The final assembly is designed to allow maximum through-flow with minimal pressure drop across the filter path.

Technical Information

Filter media	Polypropylene, stainless steel mesh and metal fibre (PES/nylon/PTFE available on request)
Filter housing material	Polypropylene, stainless steel, peek and acetal
Filter housing colour	White, black or natural (other colours available on request)
Micron rating	0.2µm, 0.5µm, 1µm, 3µm, 5µm, 10µm, 20µm, 50µm and 100µm (absolute)
Filter dimensions	Please see individual datasheets.
Filter area	From 3.5cm ² to 19cm ²
Maximum operating pressure	6bar (87psi)
Operating temperature	From 0°C to 50°C (32°F to 122°F)





Ordering Information

Microdisc™ 1PA (15mm S-Vent Disc Filter)

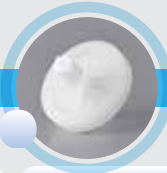
8163
(Female luer/male syringe connector; 0.2 micron rating; natural housing).



Microdisc™ 7PS (74mm Disc Filter)

8169 -  - 

Connectors	Micron Ratings	Housings
221 1/4" Jaco®	0005B 5µm	11 Natural
222 6mm Jaco®	0010B 10µm	13 Black
	0020B 20µm	
	0050B 50µm	





Microdisc™ 2PA (25mm S-Vent Disc Filter)

8164
(Female luer/male syringe connector; 0.2 micron rating; natural housing).



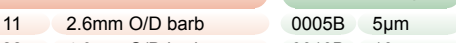

Microdisc™ 3SS (30mm Stainless Steel Filter)

8067 -  - 

Connectors	Micron Ratings
11 2.6mm O/D barb	0005B 5µm
22 4.9mm O/D barb	0010B 10µm
	0020B 20µm
	0050B 50µm





Microdisc™ 3PS (33mm Disc Filter)

8159 -  - 

Connectors	Micron Ratings	Housings
11 3mm Jaco®	0005B 5µm	12 White
22 Female luer	0010B 10µm	13 Black
	0020B 20µm	
	0050B 50µm	



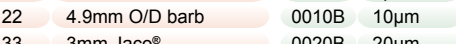
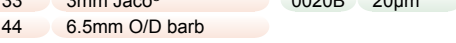
Microdisc™ 4SS (47mm Stainless Steel Filter)

8077 -  - 

Connectors	Micron Ratings
11 2.6mm O/D barb	0005B 5µm
22 4.9mm O/D barb	0010B 10µm
33 3mm Jaco®	0020B 20µm
44 6.5mm O/D barb	
66 1/4" NPT	



Microdisc™ 4PS (45mm Standard Disc Filter)

8111 -  - 

Connectors	Micron Ratings	Housings
11 CPC	0005B 5µm	22 White
33 Luer	0010B 10µm	23 Black
	0020B 20µm	
	0050B 50µm	



Bullet Filter (60mm)

8166
(Barb connectors; 5 micron rating, natural housing).



Microdisc™ 4PV (45mm Pre-Pump Filter)

8074 -  - 23



Grid Filter

8156
(14 micron rating).



Connectors	Micron Ratings
221 1/4" Jaco®	0005B 5µm
222 6mm Jaco®	0010B 10µm
	0015B 15µm
	0020B 20µm
	0050B 50µm

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