



Inprinta Capsule Filters

This main system filter is specifically designed for the requirement of digital inkjet printer filtration. The self contained unit is designed around an all-polypropylene construction with no binding agents, to give low extractables and ensure 100% compatibility with inkjet fluids. All capsule filters are available for standard solvent and UV ink systems.

- Capsule filters are pressure tested to guarantee capsule integrity.
- All filter housing is high grade Polypropylene.
- An integrated Vycon® core gives added security.
- Operating temperature from 0°C to 50°C (32°F to 122°F).
- 6bar (87psi) operating pressure.
- Optional filter materials.

Features and Benefits

- High throughput.
- Multiple connectors.
- UV and solvent ink compatible.
- Large active filter area.
- Low pressure drop.
- Excellent particle retention.

General Information

Inprinta capsules are self contained, ready to use, disposable devices. The filter body is constructed with natural or opaque black housing and available with a wide range of connector configurations to suit different systems. All capsules will provide consistent, reliable printing performance with maximised print head protection.

Filtration Technology

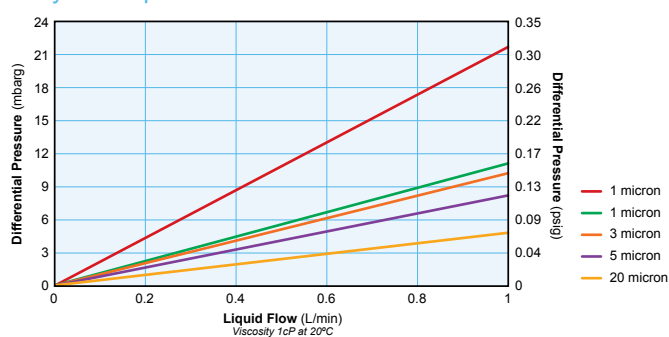
The filters are manufactured using a range of different materials and design characteristics. Our Polyfil™ and Klearfil™ pleated polymeric membranes are engineered as the principal barrier to any foreign bodies or aggregates. Our Polyfil™ media benefits from a high pleat construction and a large surface area which offers a high flow rate and a minimal pressure drop, with focused spectrum particle removal properties. Our Klearfil™ media has 8 graded filtration layers allowing for wide spectrum particle removal, gel retention and a high dirt holding capacity. The deep filter pack also demonstrates minimum distortion under pressure and a long service life.

An integrated secondary level of protection is added through an innovative design and the utilization of BioVycon™ as a central column filter. BioVycon™, a co-sintered solid-state separation material, is manufactured from an ultra-pure, highly modified polymeric material with the lowest levels of particulates and extractables.

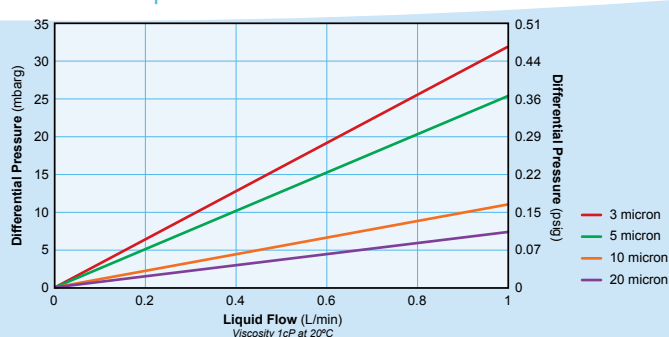
Strength and Durability

The filter housing is manufactured to take the stresses of inkjet. The polypropylene materials are resistant to all standard solvents, and the wall strength, design and construction will provide a long service life.

Liquid Flow Rates versus Differential Pressure for Polyfil™ Capsule



Liquid Flow Rates versus Differential Pressure for Klearfil™ Capsule



Connectors

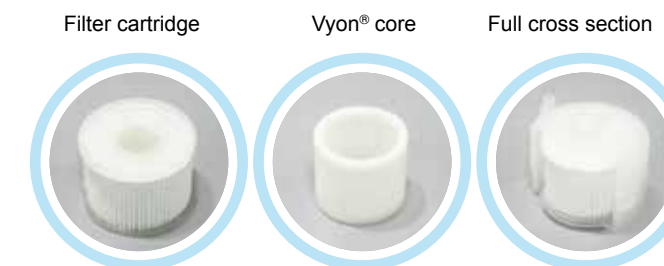
For the many inkjet systems in the market, we provide a wide range of connectors allowing for quick, simple and clean changeovers. Jaco®, CPC, luer and barb connectors are all available in a variety of configurations. Connectors are also available with elbows, for situations where space is at a premium.

Connector	Inlet/Outlet Styles
A	¼" to ¾" barb
B	¾" to ½"
C	½"
D	¼" NPT (male)
E	¾" NPT (female)
F	CPC
G	Jaco® 40-6mm-6 90° (elbow) 6mm tube
H	Jaco® 10-2mm-2 male connection 6mm tube
J	Jaco® 10-6mm-2 male connection 6mm tube
K	Jaco® 40-6mm-6 90° (elbow) 6mm tube with fitted last chance filter
L	Male connection for 4mm tube
N	90° (elbow) ¼" to ¾" barb
P	Luer
Q	90° (elbow) Luer

Filter Efficiency

- Capsule filters have removal efficiencies from 0.5µm to 60µm
- All filters validated to OSU-F2 Single pass test to Beta 5000 (99.98% efficiency)
- Manufactured for high service life

Filter Media

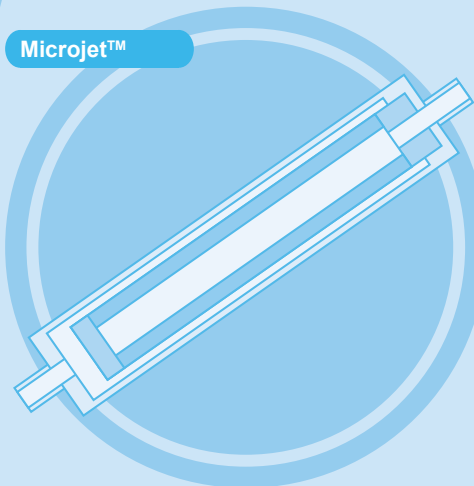
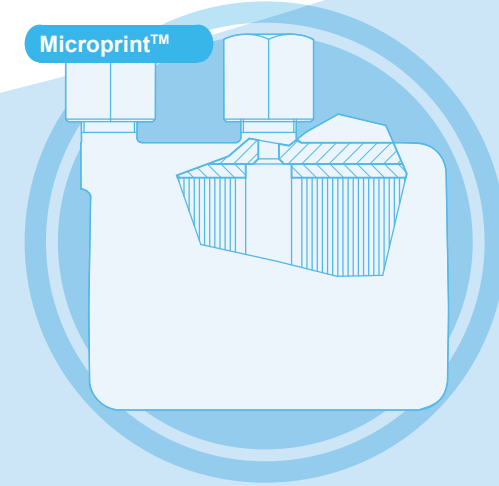
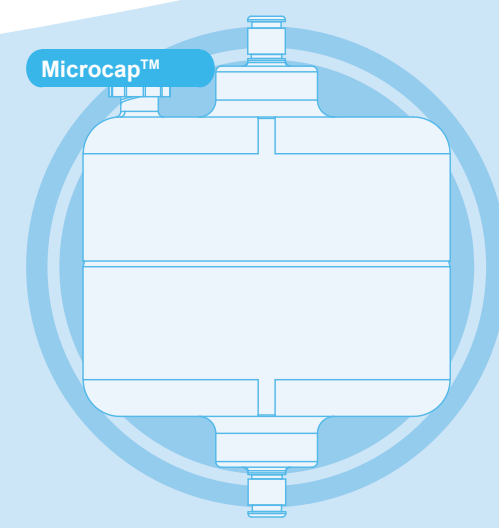


Testing

- Filter cycles:** Tested to 180,000 cycles/pulses at 80psi.
- Pressure validation:** 100% of capsule filters tested to 6 bar.
- Filter integrity:** Filter units are bubble tested for verified optimum micron rating.

Technical Information

Filter media	Polypropylene, PES, nylon, PTFE and glass fibre
Housing material	Polypropylene
Housing colour	Opaque black and natural
Micron rating	0.5µm, 1µm, 3µm, 5µm, 10µm, 20µm, 40µm and 60µm (absolute) (additional ratings are available on request)
Filter dimensions	Microcap™ 70mm x 52mm (plus connectors) Microprint™ 70mm x 46mm (plus connectors) Microjet™ 100mm x 27mm (plus connectors)
Filter area	Microcap™ 500cm² (77.5in²) Microprint™ 500cm² (77.5in²) Microjet™ ???cm² (??in²)
Maximum operating pressure	6bar (87psi)
Operating temperature	From 0°C to 50°C (32°F to 122°F)



Ordering Information

Microcap™ (Fully Moulded)

8089 - 

Micron Ratings

0050 0.5µm
0100 1µm
0300 3µm
0500 5µm
1000 10µm
2000 20µm
4000 40µm
6000 60µm

Filter Media

1 Polyfil™
5 Klearfil™

Housings

N Natural
C Opaque black

Connectors

AA ¼" barb
DD ¼" NPT (male)
FF CPC
GG1 ¼" Jaco® 90°
GG2 6mm Jaco® 90°
JJ1 ¼" Jaco®
JJ2 6mm Jaco®
PP Luer
QQ Luer 90°



Microprint™

8096 - 

Micron Ratings

0050 0.5µm
0100 1µm
0300 3µm
0500 5µm
1000 10µm
2000 20µm
4000 40µm
6000 60µm

Filter Media

1 Polyfil™
5 Klearfil™

Housings

N Natural
C Opaque black

Connectors

FF CPC
JJ1 ¼" Jaco®
JJ2 6mm Jaco®



Microjet™

8131 -  - 1 - PP - 

Micron Ratings

0500 5µm
1000 10µm

Housings

N Natural
C Opaque black



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