



DIP SERIES CAPSULE FILTERS

Compact capsule filters ideal for use in a variety of continuous inkjet printers

DIP SERIES CAPSULE FILTERS

COMPACT HIGH-PRESSURE, 10,000 IMPULSES CAPSULE FILTERS FOR INKJET FILTRATION

Cobetter® DIP Series Capsule Filters are available in a variety of fittings and filtration media to meet the needs of a diverse range of printer inks, flow, and filtration requirements.

The DIP capsules have a round-corner design which can withstand 20 bar (290 psi) of pressure. In addition, the capsules can withstand more than 10,000 pulses. This satisfies the demanding requirements for high pressure ink systems such as continuous inkjet printers.

Correct media selection for different inks can impact filter performance characteristics such as pressure loss, gel retention, and service life. The NPT filter offers six high-performance Cobetter media to meet your digital printing filtration requirements:



Typical Applications

Final Point-of-Use Filtration:

- Dye-based Inkjet Inks
- Active Dye Inkjet Inks
- Acid Dye Inkjet Inks
- Digital Inkjet Printers
- Digital Ceramic Printers
- Textile Printers
- Wide Format Printers
- UV Flatbed Printers
- High-Speed Printers

AVAILABLE IN SIX MEDIA OPTIONS



INK-PP Media:

High precision, multiple layer nano-fiber construction provides over 99.8% removal efficiency and long service life. All-polypropylene construction for excellent compatibility for most ink systems. Fiber-to-fiber thermal-bonded media ensures no fiber releasing. Recommended for regular dye-based inks and most pigment-based inks: desktop printers, wide format printers, UV flatbed printers, and textile printers.



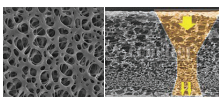
INK-PPJ Media:

Low differential pressure with high flow rate, fiber-to-fiber thermal-bonded media ensures no fiber releasing. All polypropylene construction - excellent compatibility with most ink systems. Particularly matched for continuous ink jet printers to provide low differential pressure, high flow rates, and smooth flow.



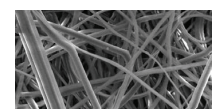
INK-PPC Media:

Enhanced filtration area with 8 layers of depth nano-fiber construction provides longer lifetime while delivering >99% efficiency with no fiber releasing. Ideal for filtration of high solids contained inks such as ceramic inks for ceramic printers.



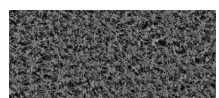
APSP Media: Asymmetric PES Absolute Membrane

- Absolute removal rating
- Asymmetric membrane pore size provide high dirt holding capacity, high flow rate
- Long service life, greatly reduced filter replacement cycle



APBT Media: All Polyester Media

- Made of full PBT material, it can meet the filtration requirement of benzene, toluene and other aromatic hydrocarbon solvents
- Capable of working for one week at 120°C
- Max. operating pressure: 4.0 bar



PFIIP Media: Asymmetric PTFE Membrane Material (Hydrophobic)

- Absolute-rated removal rating
- Membrane filtration, avoid fiber releasing

FEATURE

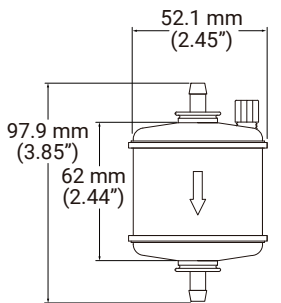
BENEFIT

Six filtration media options	Allows matching of filtration media type and retention to specific ink, flow, and retention characteristics.
Non-fiber release design	Thermally-bonded fiber polypropylene forms a stable structure and ensures no fibers are released.
Thermal welding technology	No adhesive resins to ensure capsule filter's cleanliness and long-use pressure endurance.

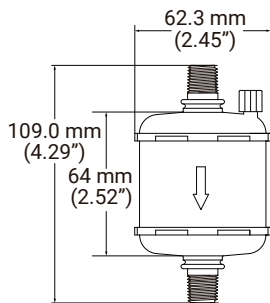
SPECIFICATIONS

Filter Media	Polypropylene depth medias, PES, Polyester, PTFE
Cage/Core/Shell/End Cap	Polypropylene or black UV resistant polypropylene
Max. Operating Temperature	50°C (120°F)
Max. Operating Pressure	0.7 Mpa (7.0 bar, 101 psi)
Inlet/Outlet	See drawings
Vent/Drain	DIPMFJ-NV: none All others: Luer Lock with cap
Filtration Area for PP Media	220 cm ² (0.24 ft ²)

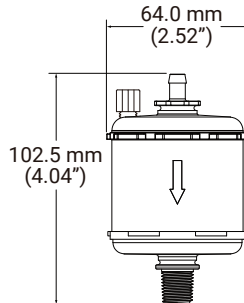
DIMENSIONS



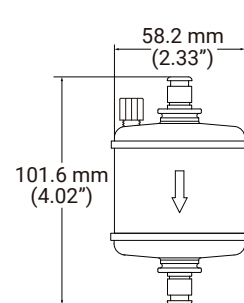
DIPMFH
(1/4" Hose Barb)



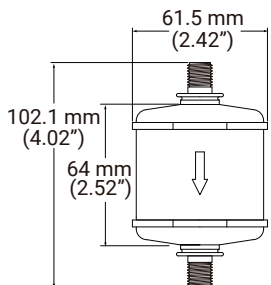
DIPMFN
(1/4" NPT)



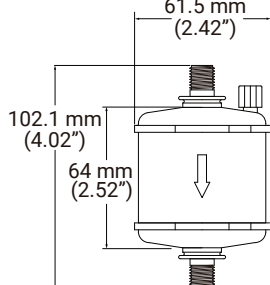
DIPMFNH
(1/4" Hose Barb inlet,
1/4" NPT Outlet)



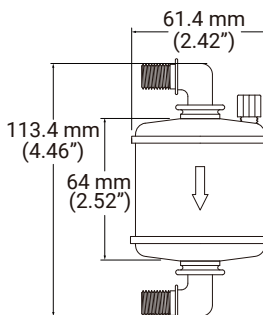
DIPMFC
(1/4" Male Quick Connect
for Metal Latch)



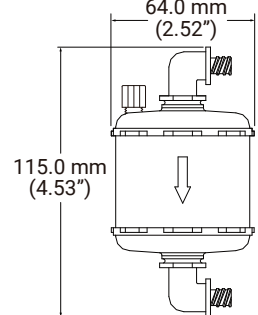
DIPMFJ-NV
(1/4" Jaco Compatible,
No Vent)



DIPMFJ
(1/4" Jaco Compatible)

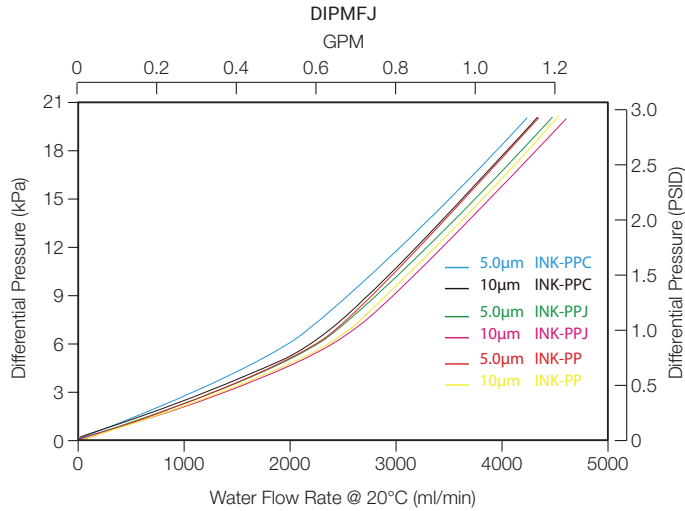


DIPMF-J9
(1/4" Jaco Compatible 90° Elbow)



DIPMFL9
(Female Luer Lock 90° Elbow)

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **DIPMFNB-INKPP0500C** = 1/4" (6 mm) NPT I/O fittings capsule, black polypropylene shell, INKPP media, 5 µm removal rating

DIP



Capsule Type

- MFH** = 1/4" (6mm) Hose Barb
- MFN** = 1/4" (6mm) NPT
- MFJ** = 1/4" (6mm) Jaco compatible
- MFJ9** = 1/4" (6mm) Jaco compatible 90° Elbow
- MFJ-NV** = 1/4" (6mm) Jaco compatible (No Vent)
- MFC** = 1/4" Male Quick-disconnect for Metal Latch
- MFNH** = 1/4" (6mm) Hosebarb inlet
1/4" (6 mm) NPT outlet
- MFL9** = Female Luer Lock, 90° Elbow



Shell

- = Standard Polypropylene
- B** = Black Polypropylene



Filter Media (Efficiency)

- INKPPJ** = Polypropylene Media (nominal)
- INKPP** = Polypropylene Media (98.8%)
- INKPPC** = Polypropylene Media (99%)
- APBT** = Polyester Membrane
- APSP** = Asymmetric PES
- PFIP** = Asymmetric PTFE (Hydrophobic)



Removal Rating

INKPP:

- 0200** = 2.0 µm
- 0300** = 3.0 µm
- 0500** = 5 µm
- 1000** = 10 µm
- 2000** = 20 µm
- 5000** = 50 µm

INKPPJ:

- 0500** = 5 µm
- 1000** = 10 µm
- 2000** = 20 µm

INKPPC:

- 0500** = 5 µm
- 1000** = 10 µm
- 2000** = 20 µm

APSP:

- 0150** = 1.5 µm
- 0300** = 3.0 µm
- 0500** = 5 µm

APBT:

- 0500** = 5 µm
- 1000** = 10 µm
- 2000** = 20 µm

PFIP:

- 0150** = 1.5 µm
- 0300** = 3.0 µm
- 0500** = 5 µm



Adaptor Fittings

— = No adaptors

K = 1/4" Hose Barb

For MFJ 9Type Only:

C = Female Luer Lock with
4mm hose barb adaptor

D = Female Luer Lock with
3mm hose barb adaptor

E = Female Luer Lock End caps

Q = Female Luer Lock with
8mm hose barb adaptor

C



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