

NPT MULTIPLE CAPACITY CAPSULE FILTERS

Capsule filters for small batch to continuous ink filtration for a variety of printers

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MULTIPLE CAPACITY CAPSULE FILTERS DEVELOPED FOR BOTH SMALL BATCH MATERIAL FILTRATION AS WELL AS BULK INK FILTRATION IN HIGH-SPEED DIGITAL PRINTING SYSTEMS.

Cobetter® NPT Series Capsule Filters are available in a variety of housing sizes and filtration media to meet the needs of a diverse range of printer inks, flow, and filtration requirements. These filters are ideal for matching with a variety of printer models, digital ceramic printers, wide format printers, and marking and coding filters.

Correct media selection for different printers 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:



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.



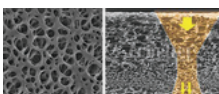
INK-PPJ Media:

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.



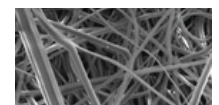
INK-PPC Media:

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.



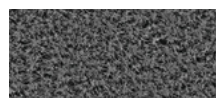
APSP Media: Asymmetric PES Absolute Membrane

- 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



PFIP Media: Asymmetric PTFE Membrane Material (Hydrophobic)

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

Typical Applications

Final Point-of-Use Filtration:

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

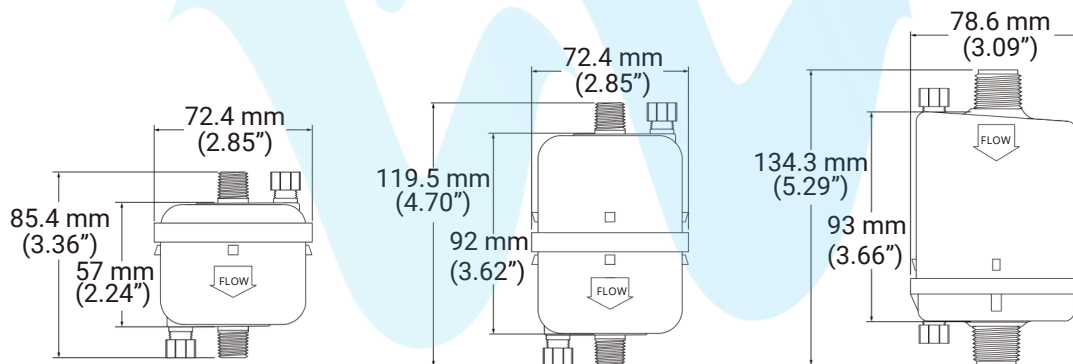


FEATURE	BENEFIT
Six filtration media options	Allows matching of filtration media type and retention to specific ink, flow, and retention characteristics.
Non-fiber release design	Thermally-bonded fiber polypropylene forms a stable structure and ensures no fibers are released.
Thermal welding technology	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	1/4" NPT or 1/2" NPT
Vent/Drain	1/8" NPT
Filtration Area for PP Medias	NPT342: 280 cm ² (0.3 ft ²) NPT42: 500 cm ² (0.5 ft ²) NPT82: 700 cm ² (0.75 ft ²) NPT82-172 & NPT742: 1220 cm ² (1.3 ft ²) NPT942: 1600 cm ² (1.7 ft ²)

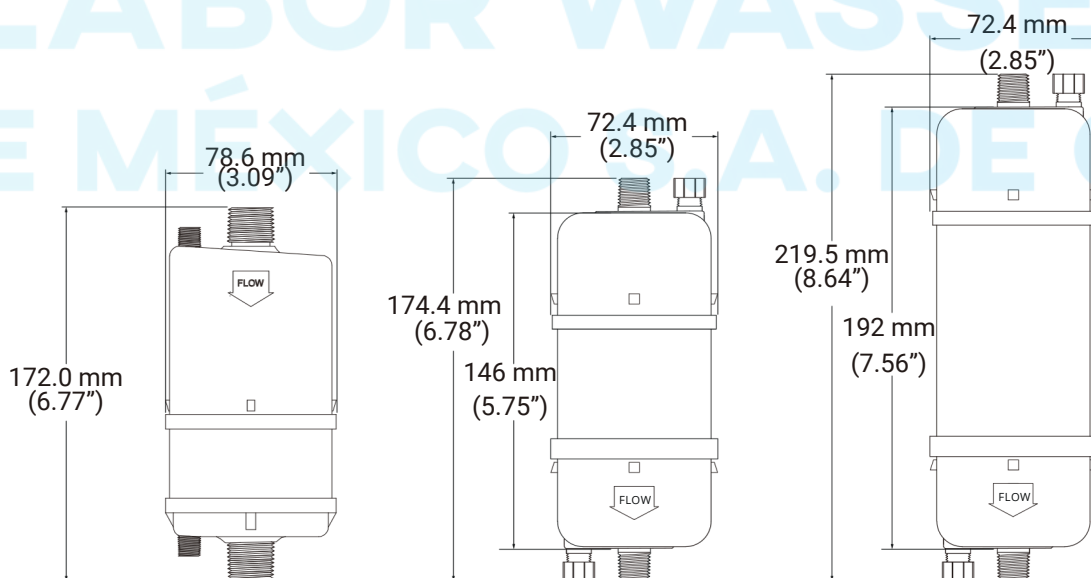
DIMENSIONS



NPT342
(1/4" NPT)

NPT42
(1/4" NPT)

NPT82
(1/2" NPT)



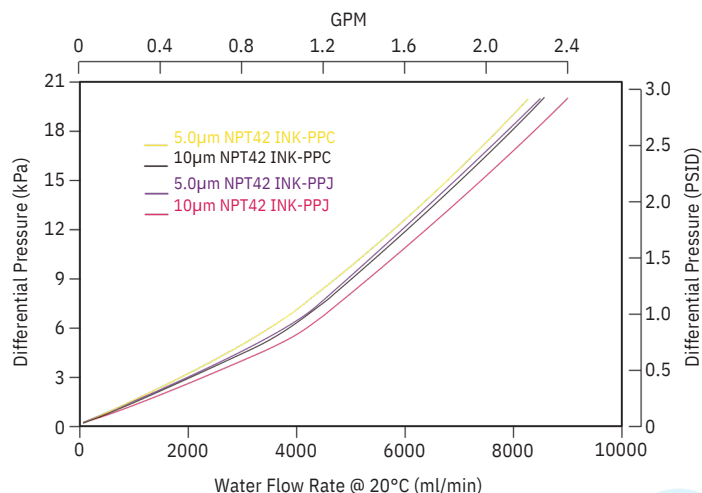
NPT82-172
(1/2" NPT)

NPT742
(1/4" NPT)

NPT942
(1/4" NPT)



FLOW RATES



ORDERING INFORMATION

EXAMPLE: **NPT42B-INKPP0500C** = 1/4" NPT inlet/outlet, 4.7" length capsule, black polypropylene shell, INKPP media, 5 µm removal rating

NPT



Shell

— = Standard Polypropylene
B = Black Polypropylene

—



Filter Media

INKPPJ = Polypropylene Media (nominal)
INKPP = Polypropylene Media (99.8%)
INKPPC = Polypropylene Media (99%)
APBT = Polyester Membrane
APSP = Asymmetric PES
PFIP = Asymmetric PTFE (Hydrophobic)



C

Removal Rating

INKPP:
0100 = 1.0 µm
0150 = 1.5 µm
0200 = 2.0 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

Capsule Size/Type 342 = 85.4mm (3.4") with 1/4" NPT Inlet/Outlet 42 = 119.5mm (4.7") with 1/4" NPT Inlet/Outlet 82 = 134.3mm (5.3") with 1/2" NPT Inlet/Outlet 82-172 = 172mm (6.8") with 1/2" NPT Inlet/Outlet 742 = 174.4mm (6.9") with 1/4" NPT Inlet/Outlet 942 = 219.5mm (8.6") with 1/4" NPT Inlet/Outlet



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