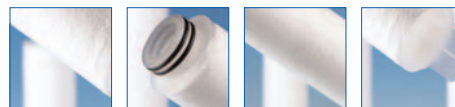


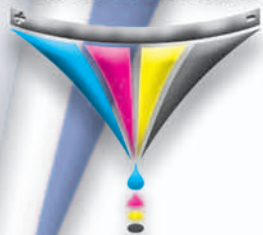


Pall Corporation

Profile[®] II Filter Cartridges for Ink Jet Ink Formulation



Pall Ink Jet Team



Filtration. Separation. Solution.SM

IJ 1770a



Absolute-rated¹ depth filters for prefiltration and final filtration of ink jet inks.

The Profile[®] II ink jet filter has been customized for use in ink jet ink formulation, where absolute-rated filtration is a requirement. Proven tapered-pore technology for built-in prefiltration and a sanitary dual O-ring seal assure filter integrity and ease-of-use with a wide range of ink jet formulations.

Description

- Absolute-rated depth filters with all-polypropylene construction and ethylene propylene O-rings.
- Single-open-ended construction with dual O-ring seal.
- Available with removal ratings from 0.3 μm to 10 μm .
- Continuously profiled pore structure for built-in prefiltration and long life.

| Features | Advantages | Benefits |
|---|--|--|
| Absolute-rated filter media | Consistent, repeatable filtration | Consistent ink quality from batch to batch |
| Single-open-ended construction with dual O-ring seal | Extra assurance of a secure filter seal and easy plug-in filter installation | Assurance of absolute-rated filtration and faster filter changes |
| Sharp cutoff for particle size | Good transmittance characteristics | Effective removal of oversized contaminants without stripping colorant |
| All-polypropylene construction | Excellent compatibility with most ink systems | Can be applied over a wide range of inks |
| Graded pore density | Built-in prefiltration | Longer service life and low filtration cost per gallon/liter |
| Free of surfactants, binders, and mold release agents | Low extractables in most ink systems | Filter will not affect critical ink properties |
| Fixed pore structure | Solids will not unload during variations in flow or pressure | Permanently traps contaminants |



Technical Information

Materials of Construction

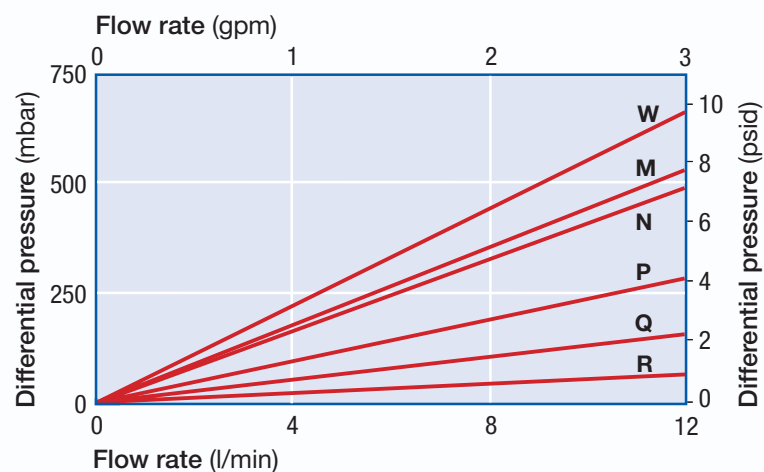
| | |
|---------------|--------------------------|
| Filter media | Polypropylene |
| Core, endcaps | Polypropylene |
| O-rings | Ethylene propylene (EPR) |

Operating Conditions

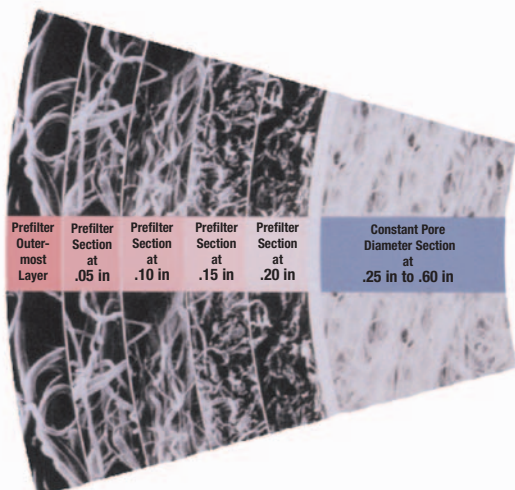
Operating temperature and maximum differential pressures in compatible fluids.¹

| Operating Temperature | Maximum Differential Pressure |
|--------------------------|-------------------------------|
| 82°C / 180°F | 1 bard / 15 psid |
| 70°C / 158°F | 2 bard / 30 psid |
| 30°C / 86°F ² | 4.1 bard / 60 psid |

Typical Liquid Flow Rate versus Differential Pressure³



Graded Pore Structure



¹ Fluids that do not soften, swell or adversely affect the filter or materials of construction.

² Recommended filter changeout: 2.3 bard / 40 psi

³ For liquids with viscosities differing from water, multiply the pressure drop by the viscosity in cP.



Ordering Information / Part Numbers⁴

All Profile II ink jet filters feature a single-open-ended construction with a dual O-ring connection. Standard O-rings are ethylene propylene. There are two options for the closed end of the filter: a flat end cap and a bomb finned end cap. An advantage of the bomb fin is that it easily locates and fixes the filter in the housing.

IJF ■ ● ▼ 7 ◆

(example: IJFN1B71)

| Code | Removal Rating ¹ (µm) |
|------|----------------------------------|
| ■ | |
| W | 0.3 |
| M | 0.5 |
| N | 1 |
| P | 3 |
| Q | 5 |
| R | 10 |

| Code | Nominal Length (mm / in) |
|------|--------------------------|
| ● | |
| 1 | 254 / 10 |
| 2 | 508 / 20 |
| 3 | 762 / 30 |

| Code | |
|------|-------------|
| ◆ | |
| 1 | EPR O-rings |

| Code | |
|------|---|
| ▼ | |
| B | Pall Code 8 double O-ring and finned end (63.5 mm / 2½ in diameter) |
| D | Pall Code 3 double O-ring with flat end (63.5 mm / 2½ in diameter) |

⁴ This is a guide to the part numbering structure only. For availability of specific options, please contact your Pall representative.



Pall Corporation

Microelectronics

25 Harbor Park Drive
Port Washington, NY 11050

+1 516 484 3600 phone
+1 800 289 7255 toll free US
+1 516 625 3610 fax
inkjet@pall.com

Visit us on the Web at www.pall.com

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