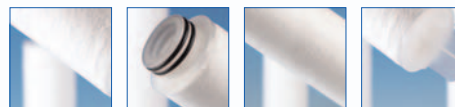




Pall Corporation

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

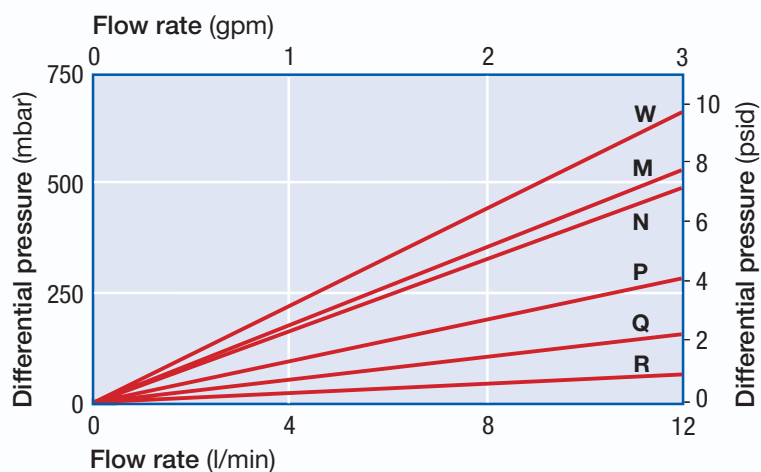
Filter media	Polypropylene
Core, endcaps	Polypropylene
O-rings	Ethylene propylene (EPR)

Operating Conditions

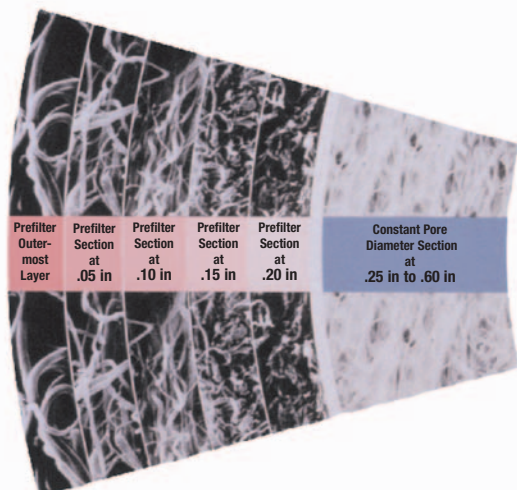
Operating temperature and maximum differential pressures in compatible fluids.¹

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.

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(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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