

Hi-V® Resin Bonded Series Filter Cartridges

Description

- Designed for highly viscous fluids
- Reliable, consistent filtration
- Negligible media migration
- No epoxies, glues, or adhesives
- One piece construction
- High contaminant-holding capacity
- Very high flow rates
- No center core allows for easy disposal
- Exceptional, economical particle classifier for pigmented coatings

Performance Specifications

Filter Grades

XF, 5, 10, 25, 50, 75, 125, XL μm

Maximum Temperature Rating

Non-aqueous liquids: 82°C (180°F)

Gases: 121°C (250°F)

Low Media Migration

Hi-V cartridges use wound resin-impregnated fibers that are four-to-six inches in length, much longer than typical molded cartridges, which use fibers of less than one-eighth inch. As a result, very few fibers migrate downstream into the process stream. This prevents equipment damage and the need to recirculate before filtering to clean up filter debris.

Product Specifications

Materials of Construction

Filter media: Phenolic resin-impregnated wound polyester fibers

Extended core (optional): Polyester

Dimensions (nominal)

Outside diameter: 6.4 cm (2.5 in)

Inside diameter: 2.5 cm (1 in)

Lengths: 24.8 cm (9.75 in), 25.4 cm (10 in), 49.5 cm (19.5 in), 50.8 cm (20 in), 74.3 cm (29.25 in), 74.9 cm (29.25 in), 76.2 cm (30 in), 99.1 cm (39 in), 102 cm (40 in)



Differential Pressure¹

Filter Grade	psi / gpm	mbar / lpm
XF	0.200	3.643
5	0.059	1.075
10	0.059	1.075
25	0.033	0.601
50	0.023	0.419
75	0.016	0.291
125	0.001	0.018
XL	0.001	0.018

¹ Water @ 20°C (68°F)

Applications

Hi-V Series filter cartridges represent a significant advancement in resin bonded filter cartridge technology. Hi-V filters capitalize on Pall's technical leadership in the design and manufacturing of wound fiber cartridges. The use of spiral-wound filter technology in the manufacturing of Hi-V filter cartridges has eliminated many problems associated with traditional molded fiber technology. Hi-V cartridges deliver consistent removal of harmful contaminants from process streams while offering long service life and economy.

Typical Hi-V Filter Applications²

Adhesives, Coatings, and Inks	Petroleum Products	Resins	Other Applications
Adhesive emulsions	Asphalts	Acrylics	Animal oils
Enamels	Machine coolants	Alkyds	Cosmolene elastomers
Box inks	Crude oils	Aminos	Tung oils
Lacquers	Fuel oils	Epoxies	Plasticizers
Paints	Grease	Silicones	Rapeseed oils
Sealants	Hydraulic fluid	Urethanes	Turpentine
Shellac	Kerosene lubricating silicone oils	Vinyls	Glycerine inorganic acids (dilute)
Varnishes	Waxes		

² Hi-V Series filters are not recommended for use with food, beverage, drug, or potable water applications.

Part Numbers / Ordering Information

1 RPN **2** – **3** (e.g., 50RPN10–EE)

Table 1

Code	Filter Grades
XF	Extra retention
5	5 µm
10	10 µm
25	25 µm
50	50 µm
75	75 µm
125	125 µm
XL	Extra life

Table 2

Code	Cartridge Lengths (nominal) (cm / in)
3.75	9.53 / 3.75
4	10.16 / 4
9.75	24.77 / 9.75
10	25.40 / 10
19.5	49.53 / 19.5
20	50.80 / 20
29.25	74.30 / 29.25
29.5	74.93 / 29.5
30	76.20 / 30
39	99.06 / 39
40	101.60 / 40

Table 3

Code	Extended Core
Blank	No extended core
EE	Polyester



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