



POROPLATE®

Series PP

Cylindrical, Stainless Steel Filter Cartridges
For High-Temperature and Corrosive Processing Applications

Poroplate Series PP cylindrical stainless steel filter cartridges are engineered with sintered laminate media for high-temperature, highly corrosive gas and liquid applications. They deliver superior filtration quality and performance and help reduce total cost of ownership

through longer on-stream life and years of reliable, trouble-free service. Because the cartridges are cleanable and reusable, they also help minimize disposal costs and reduce landfill waste.

FEATURES	BENEFITS 
Self-supporting Medium	Eliminates risk of media migration and cost of structural support core.
316L Stainless Steel Construction	Ideal for environments that are highly corrosive with abrasive particles and high temperatures.
Metallurgically Sinter-Bonded	Stable and precise pore size distribution combined with excellent fluid flow permeability ensures ease of backflushing and cleaning.
Standard Cartridge Configurations	No extended lead time for standard configurations listed below. All filter cartridges are 2.5" diameter.
Laser Marked End Fittings	Easy identification and traceability for replacement cartridges.
Common End Cap Options	Accommodates flexibility fitting in variety of manufacturers vessels.
Quality Control	Every Poroplate element is ultra-sonically cleaned and bubble-point tested prior to shipment to ensure product cleanliness, integrity and performance.
Environmentally Sustainable	The multiple-use cartridge replaces single-use cartridges, reducing landfill waste and enabling recycling at the end of its lifecycle.
Operating Temperatures	850° F for filter with all metallic construction and NPT fitting. Operating temperature limited on other configurations based on operating parameters and seal material selection.

- Polymers
- Food & Beverages
- Hot Gases
- Chemicals
- Pharmaceuticals & Cosmetics
- Hydraulic Oils & Fuels
- Water
- Vacuum Gas Oil
- Refineries
- Petro-chemical
- Pulp & Paper

APPLICATIONS

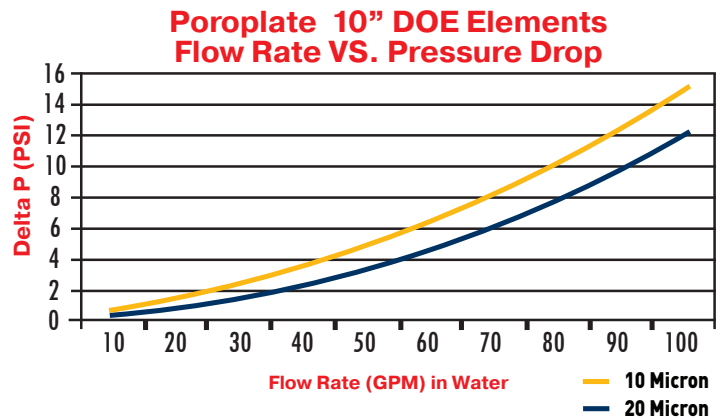
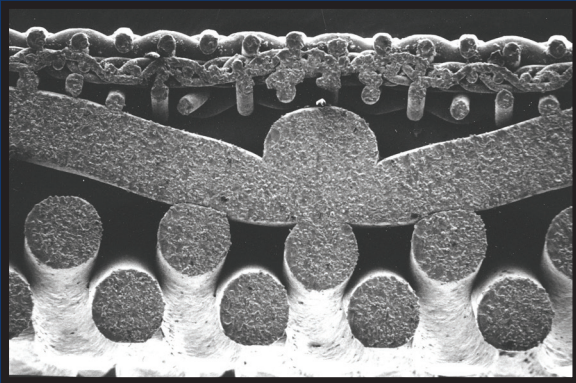


The Sintered Media Advantage

A self-supporting medium constructed from multiple layers of woven wire cloth, sintered into a rigid, porous metal structure. Poroplate cartridges are cylindrical, surface-type filters ideal for back-flushing and repeated cleaning. Their self-supporting design eliminates the need for expensive filter support cores and creates a stable pore size.

Poroplate media has an integral outer guard layer to protect the filtration layer during handling and cleaning, increasing cartridge life.

Poroplate cartridges are available in standard micron ratings of 10, 20, 40, 70, 100, 150, and 250 microns, with special micron ratings available upon request. These cartridges feature a simple cylindrical design and have a collapse rating of 125 psid.



Poroplate Application Selection Guide

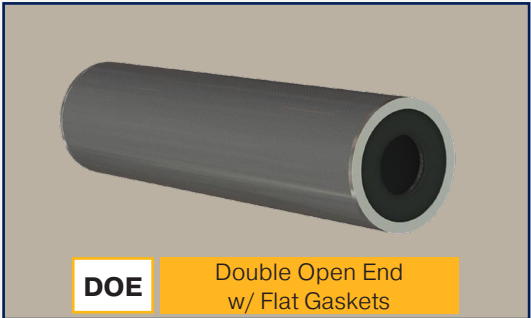
APPLICATION	PRODUCTS REPLACED	PROBLEMS SOLVED/ END RESULT
Hot gas	Sintered powder metal cartridges	Provided lower clean pressure drop and longer on-stream life cycle
Vacuum oil gas	Fiberglass Cartridges	- Fiberglass cartridges were expensive and required replacement every 3-4 days at 300°F - Manual backwash, cost of re-plumbing and new elements had a pay back of less than 6 months
Hot toluene @ 185° F	Bag filters	Used nitrogen blow back to clean cartridge, reduced exposure to hazardous materials
Waste water	Disposable filters	The solution delivers significant cost savings on maintenance and filter replacements, improves system uptime and efficiency, reduces environmental impact by minimizing waste, and ensures enhanced filtration performance with stable pressure drops.
Steam filter	Fiberglass Cartridges	This pharmaceutical customer experienced fiber shedding downstream due to high temperatures causing degradation. They replaced the element with a Poroplate filter, which handles the temperature rating, prevents fiber shedding, and allows repeated cleaning for cost savings.

PART MODEL MATRIX

PP	1	DOE	01	B
SERIES	DIMENSIONS	END CAP	PERFORMANCE	SEAL
	CODELENGTH	CODESTYLE	CODEMICRON	CODEMATERIAL
	110"	DOEDouble Open End	0110	B Buna-N
	220"	DORDouble O-ring (222)	0220	E EPDM
	330"	WLTWith Locking Tabs (226)	0440	S Silicone
	440"	NPTØ 1.00" Male NPT	0770	V Viton®
			10100	
			15150	
			25250	

Cartridges available in 2.5" diameter

END CAP STYLES



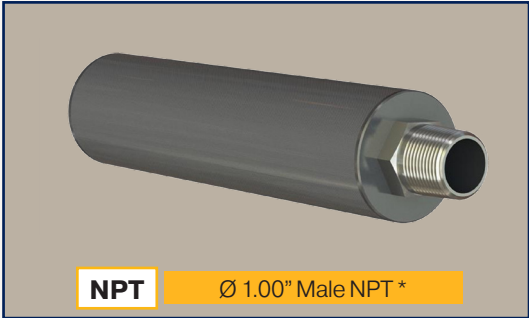
DOE Double Open End w/ Flat Gaskets



DOR Double O-ring (222) *



WLT Double 226 O-Rings w/ Locking Tabs *



NPT Ø 1.00" Male NPT *

*End opposite fitting has solid end cap.



SCAN QR CODE FOR ADDITIONAL
PRODUCT INFORMATION INCLUDING
AVAILABLE PART NUMBERS

For technical questions contact ipf.technical@support.parker.com or call 940-325-2575
To order, contact a support representative at ipf.support@support.parker.com or call 940-325-2575
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