

CLARIFLOW®-G FILTER CARTRIDGE

Membrane filter cartridges hydrophilic polyethersulfone (PES) membrane for aqueous liquid filtration applications

Clariflow®-G general grade cartridges are designed for general-purpose use in the filtration of high-purity liquids and aqueous chemicals.

The mirrored-anisotropic polyethersulfone (PES) membrane is inherently hydrophilic and has a pore morphology that delivers exceptionally high flow rates.

Because there are no added surfactants or wetting agents, and the support layers and structure are all-polypropylene, the filter exhibits low extractables, broad chemical compatibility and good resistance to hydrolysis.

The Clariflow General Grade Cartridge is available in absolute ratings of 0.04, 0.1, 0.2, 0.45, 0.65 and 0.8µm pore sizes.



Benefits

- High flow rate reduces processing time
- Broad chemical compatibility allows use in most applications
- Low differential pressure reduces system wear and tear
- ISO 9001 registered company

Applications

- Chemical filtration
- Liquid clarification
- Recirculating fluids
- General use water filtration
- Deionized water systems



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Specifications

Materials of Construction

- Membrane: Polyethersulfone
Support layers: Polypropylene
Structure: Polypropylene

All components are thermally bonded to ensure integrity and to reduce extractables.

Effective Filtration Area

6.8ft² ± 0.3ft² / 0.63m² ± 0.0279m² per 10" (250mm) cartridge

Maximum Differential Pressure/Temperature

Forward:

- 80psid (5.5bar) @ 75°F (24°C)
- 40psid (2.8bar) @ 180°F (82°C)

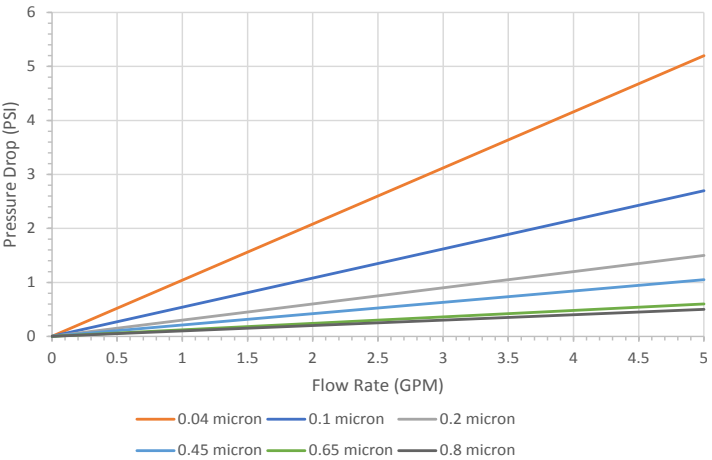
Reverse: 50psid (3.4bar) @ 75°F (24°C)

Maximum Operating Temperature: 160°F (71°C)

Performance Attributes

Water flow rates, Typical*		
Micron	gpm/psid	lpm/100mbar
0.04	1.0	5.29
0.10	1.8	9.88
0.20	3.7	20
0.45	4.8	26
0.65	9.2	51
0.80	9.5	52

*Per 10-inch (250mm) cartridge equivalent with viscosity of 1cP.



Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoise.

Ordering Information

25 - 10 - [Diagram of Cartridge] - [Diagram of End Fitting] - [Diagram of Gasket/O-Ring] - [Diagram of Gasket] - G

End Fitting			Nominal Length			Filter Rating		Gasket/O-Rings		Gasket		
CODE	DESCRIPTION		CODE	INCHES	MM	CODE	MICRON	CODE	DESCRIPTION	CODE	THICKNESS	
0	DOE (Cuno®)		10	10	250	924	0.04	0	Buna-N			
1	DOE		20	20	500	001	0.10	1	EPDM	1	0.200	5
2	226/Flat		30	30	750	002	0.20	2	Silicone	2	0.125	3
3	222/Flat		40	40	1000	004	0.45	4	Viton®	4	(1) 0.200	5
6	020/Internal/Flat					006	0.65	5¹	FEP-Encapsulated Viton®		(1) 0.125	3
7	226/Fin					008	0.85	6¹	FEP-Encapsulated Silicone	N	No Gasket	
8	222/Fin							N	None			

¹O-Ring only

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