COFILTERS

PES Pleated Cartridge Filter

PES filters provide economical filtration for a variety of applications

PES series cartridge filters are constructed of polypropylene components and a hydrophilic polyethersulphone (PES) membrane, 100% integrity tested during manufacturing to guarantee filter integrity and sterility assurance.



Allows high flow and low pressure drop, lowering cost of ownership.

APPLICATIONS

- Facility water
- LVP/SVP
- Ophthalmic solutions
- API

FEATURES & BENEFITS

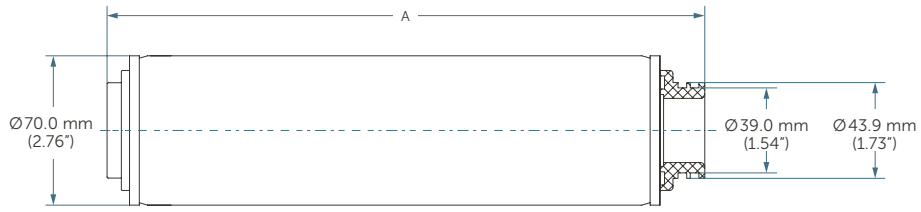
- Easily wetted for integrity test
- High flow rate and long service life
- Proven compatibility with diverse injections

SPECIFICATIONS

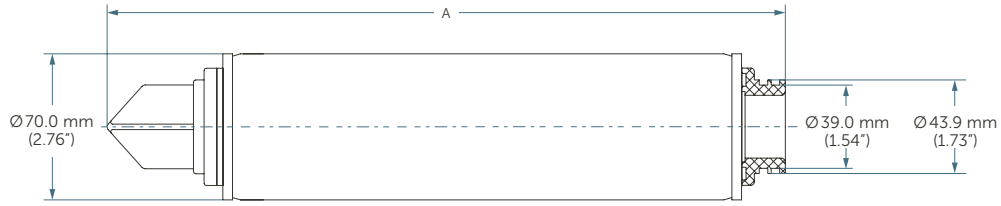
Materials of construction	Membrane	Hydrophilic PES
	Support	PP
	Core and Cage	PP
	End Caps	PP with stainless steel (SS) lining
	O-rings/Gasket	Silicone/EPDM
	Sealing technology	Thermal bonding, no adhesives
Dimensions	Diameter	Ø70 mm
	Length	5", 10", 20", 30", 40"
Filtration area	≥6.4 ft² per 10" cartridge	
Retention rating	0.1, 0.22, 0.45, 0.22+0.1, 0.22+0.22, 0.45+0.22 µm (Other retention rating on request)	
Maximum differential pressure	Forward: 4.2 bar @ 23°C (73°F), 1.0 bar @ 85°C (185°F)	
Integrity test-water bubble point at 23°C	0.1 µm	≥3800 mbar
	0.22 µm	≥3400 mbar
	0.45 µm	≥2300 mbar
Bacterial retention (for 0.1 µm & 0.22 µm only)	Passed the bacterial challenge testing using *Brevundimonas diminuta* (ATCC19146) at a minimum challenge concentration of 1×10^7 CFU/cm²	
Multiple sterilization cycles	May be steam-in-place sterilization for maximum 20 cycles at 127°C (261°F), 30 min, ΔP≤300mbar	
	May be autoclaved for maximum 20 cycles at 123°C (253°F), 30 min	
	May be sanitized by hot water, maximum 30 cycles at 85°C (185°F)	
Food contact material	All components meet the requirements of (EC) No 1935/2004	
Indirect food additive	All components meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182	
Quality	Manufactured in accordance with ISO 9001 and ISO 13485 certified quality management system	

DIMENSIONS

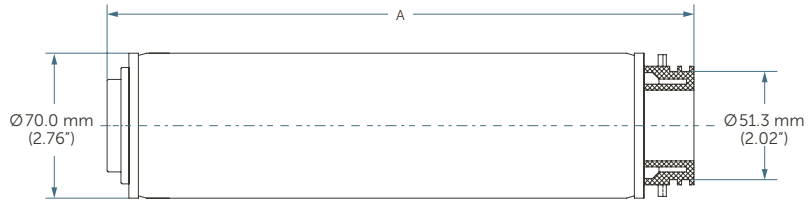
Ø70 mm Code 0 Filter



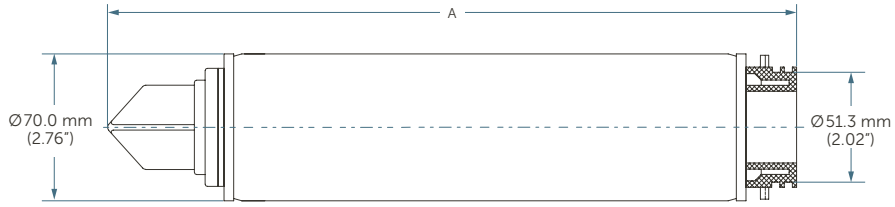
Ø70 mm Code 5 Filter



Ø70 mm Code 6 Filter



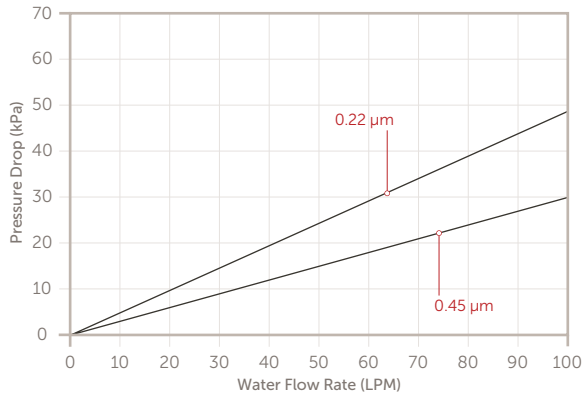
Ø70 mm Code 7 Filter



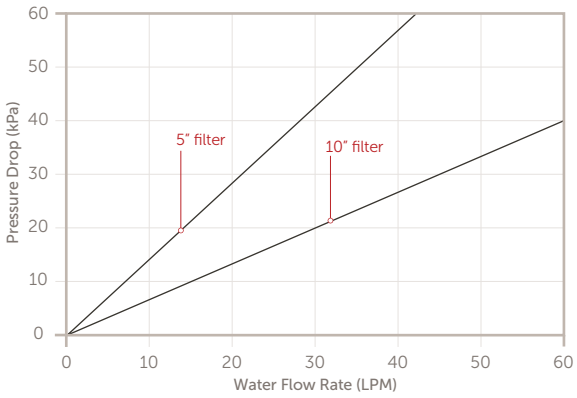
Length	Code 0 (A)	Code 5 (A)	Code 6 (A)	Code 7 (A)
5"	148.0 mm (5.8")	–	150.5 mm (5.9")	–
10"	273.0 mm (10.7")	314.0 mm (12.4")	276.0 mm (10.9")	316.5 mm (12.5")
20"	517.5 mm (20.4")	558.5 mm (22.0")	520.0 mm (20.5")	561.0 mm (22.1")
30"	762.0 mm (30.0")	803.0 mm (31.6")	764.5 mm (30.1")	805.5 mm (31.7")
40"	1006.5 mm (39.6")	1047.5 mm (41.2")	1009.0 mm (39.7")	1050.0 mm (41.3")

PERFORMANCE DATA

10" Single-layer Cartridge Filter Flow Rate



Dual-layer Cartridge Filter Flow Rate



COFILTERS

Corporate Headquarters

#401-13, #6 Building
Pharmaceutical Port
Qiantang District,
Hangzhou City, China