nO-Ring®

Innovative Cartridge Seal Adapter

The nO-Ring® seal is an innovative adapter for sealing cartridge filters into 222- and 226-style filter housings. The patented nO-Ring® design provides the security of a double O-ring seal, without the use of elastomeric O-rings. This seal is ideal for use in critical pharmaceutical, semiconductor and chemical applications, which would otherwise require the use of expensive fluoropolymeric or perfluoroelastomeric O-rings. Typical applications include filtration of high purity chemicals such as DI water, acids, bases, solvents, photochemicals, developers, etchants and rinses.

The patented nO-Ring® design eliminates the need to select and use expensive chemically resistant O-rings for aggressive chemical or solvent applications. This reduces material costs for each batch or process line. By eliminating the extra O-ring materials, total filter extractables are reduced. Filter installation and removal concerns associated with O-ring durometer and/ or deterioration in service are also eliminated.

Design Features

- All-polypropylene construction provides wide chemical compatibility, while reducing extractables
- Unique adapter design easily distinguishes nO-Ring™
 cartridges from other cartridges, which may have identically
 colored and textured O-rings, but differing chemical
 compatibilities





Specifications

Materials of Construction

Upstream & Downstream

Support: Polypropylene Outer Cage: Polypropylene Core: Polypropylene Polypropylene End Caps: Sealing Method: Thermal bonding

Filtration Media:

Hydrophilic Membranes SteriLUX® **PVDF**

STyLUX® Polyethersulfone EverLUX® Polyethersulfone

Hydrophobic Membranes

Steridyne® **PVDF**

Chemdyne® Polypropylene

Ultradyne® PTFE

Microfiber

ALpHA® Polypropylene Vangard® Polypropylene Protec® RF Borosilicate glass Protec® RM Borosilicate glass

+ PVDF membrane Polypropylene depth

DeltaMax®

Filtration Ratings:

0.04 µm - 99 µm

Cartridge Length (Nominal)

10", 20", 30" or 40"

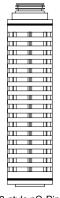
(25 cm, 50 cm, 75 cm or 100 cm)

Maximum Operating Temperatures & Pressures

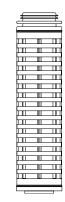
Δp 80 psi @ 100 °F (Δp 5,5 bar @ 38 °C)

Δp 60 psi @ 150 °F (Δp 4,1 bar @ 66 °C)

Δp 30 psi @ 180 °F (Δp 2,1 bar @ 82 °C)



222-style nO-Ring® filter cartridge (C1)



226-style nO-Ring® filter cartridge (C5)



Ordering Information

Filter Media			Removal Rating (µm)		
MF		MF	5		
VMH	=	SteriLUX®	0.1, 0.2, 0.4, 0.6		
SM	=	STyLUX®	0.04, 0.1, 0.2, 0.4, 0.6		
SMH	=	EverLUX®	0.2, 0.4, 0.6		
VMV	=	Steridyne®	0.2		
PM	=	Chemdyne®	0.04, 0.1, 0.2		
TM	=	Ultradyne®	0.05, 0.1, 0.2, 0.4, 1.0, 5		
MF	=	ALpHA®	0.45, 0.6, 0.8, 1.2, 2.4, 5, 7, 10, 20, 30, 40, 70		
MN	=	Vangard®	0.1, 0.2, 0.4, 1, 3, 5, 10, 30, 60, 99 (nominal)		
RF	=	Protec [®]	0.5		
RM	=	Protec® +	0.2, 0.3, 0.5		
DMG	=	DeltaMax®	0.5, 1, 3, 5, 10, 20, 40, 70		

	artri _enç		
	1		
1	=	10"	
2	=	20"	
3	=	30"	
4	=	40"	

Configuration	
F5	
C1 = SOE; -222 nO-Ring®,	,
button cap end	
F1 = SOE; -222 nO-Ring®,	,
fin end	
C5 = SOE; -226 nO-Ring®,	,
button cap end	
F5 = SOE; -226 nO-Ring®,	,
fin end	

End Cap